

RG 19152

75

4251

RG 191

RG FW

RG SE

BY CH'D CCO#

TW

CU 04251

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EA 0120F1

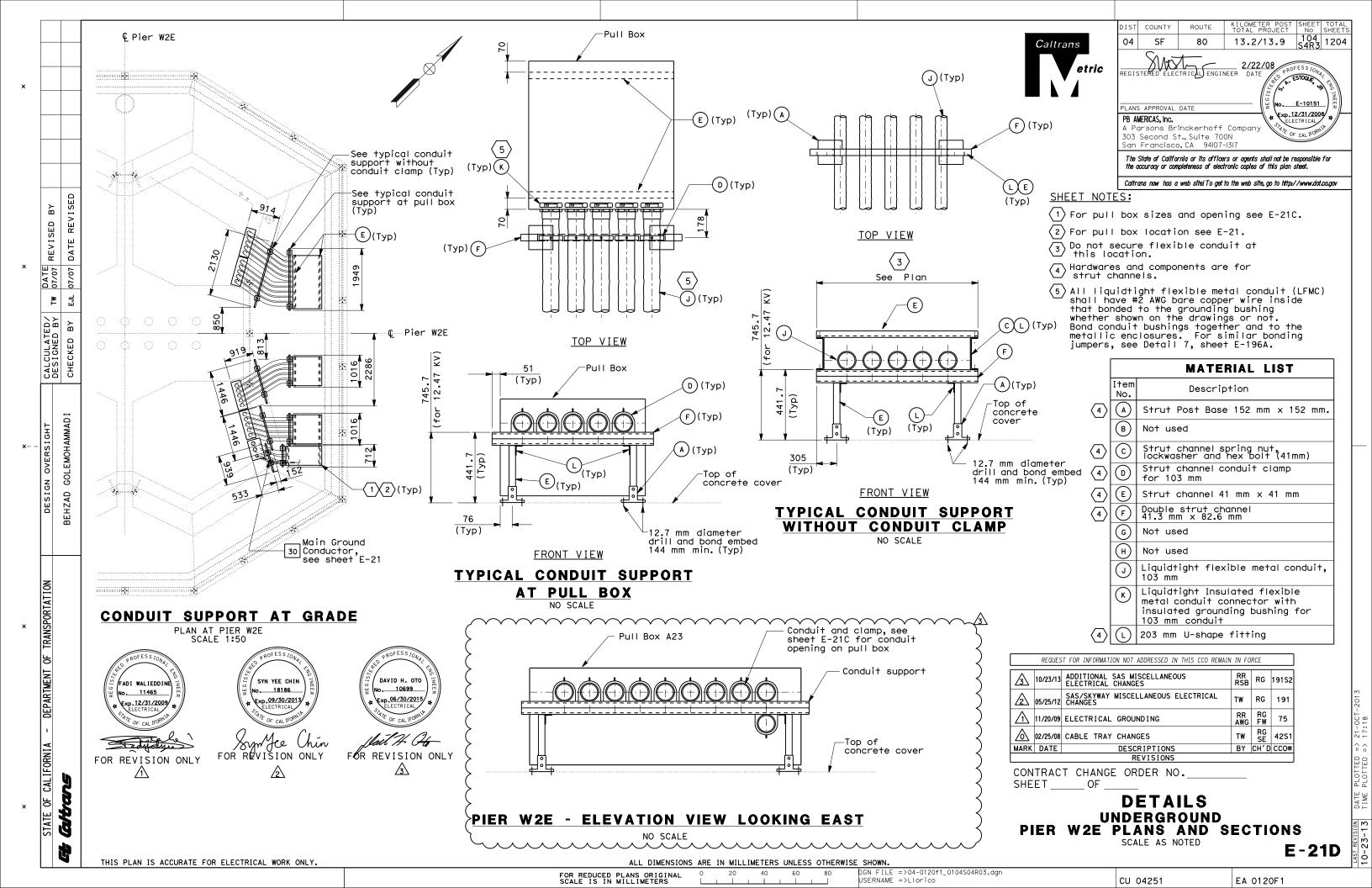
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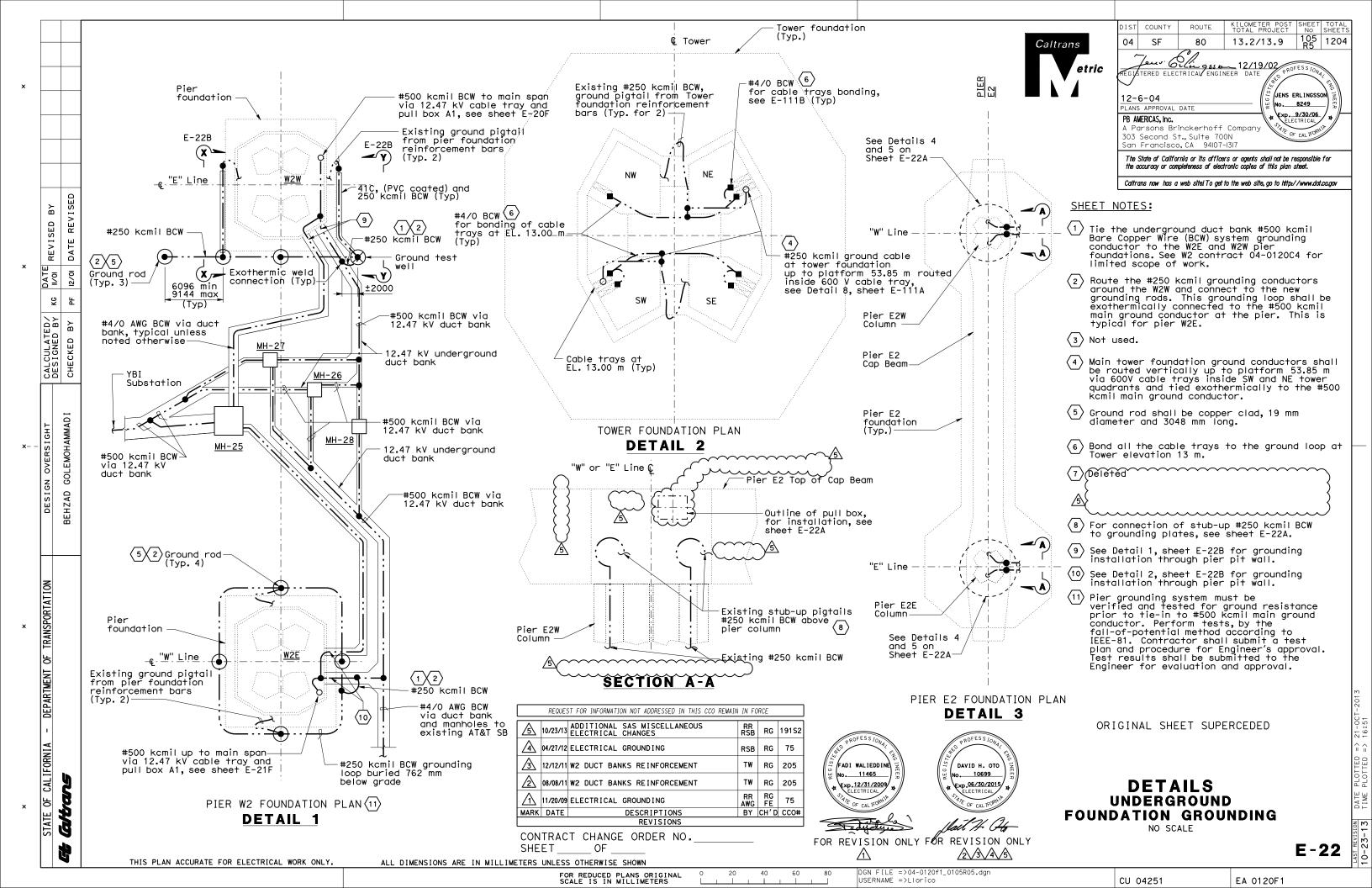
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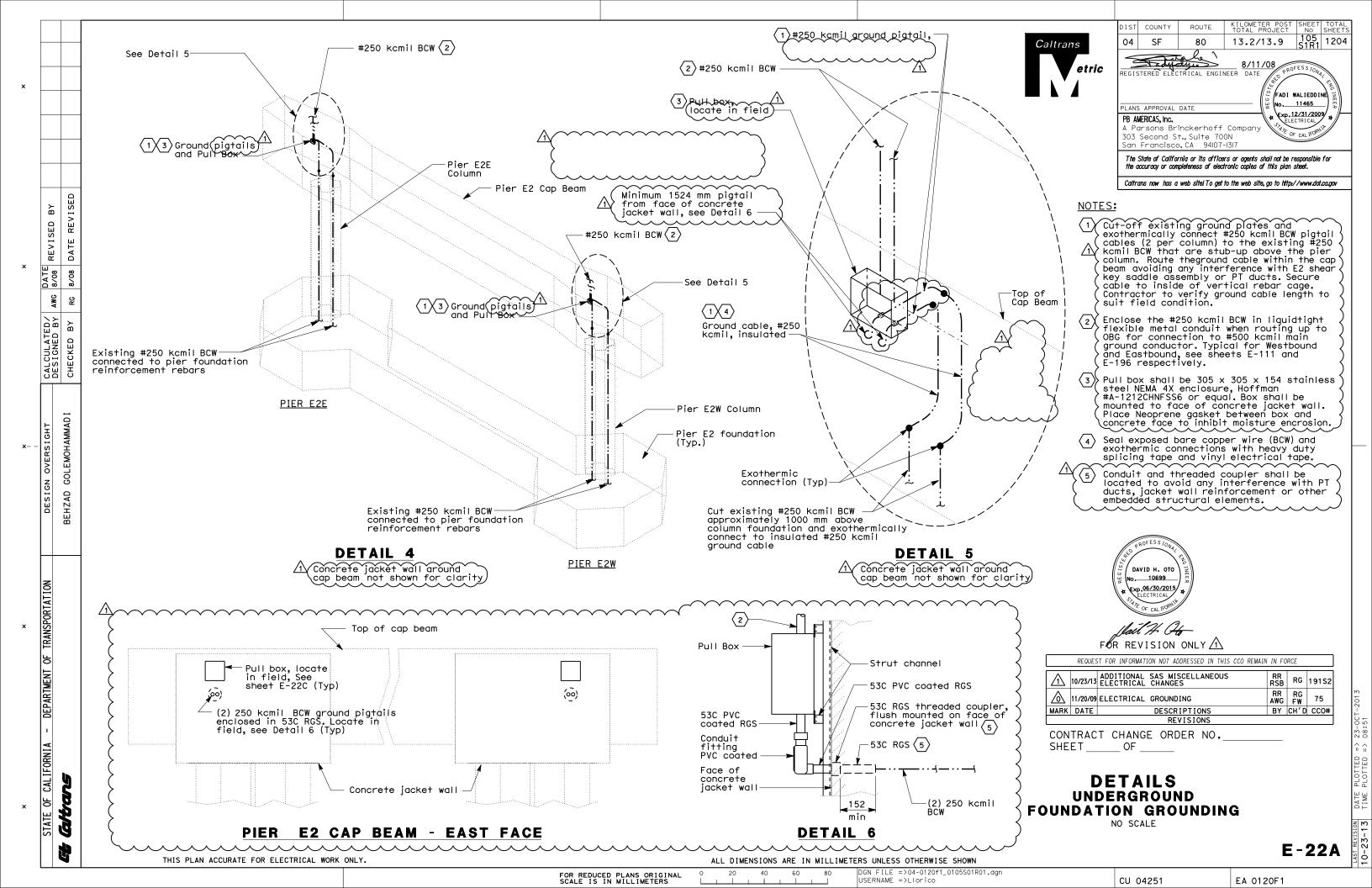
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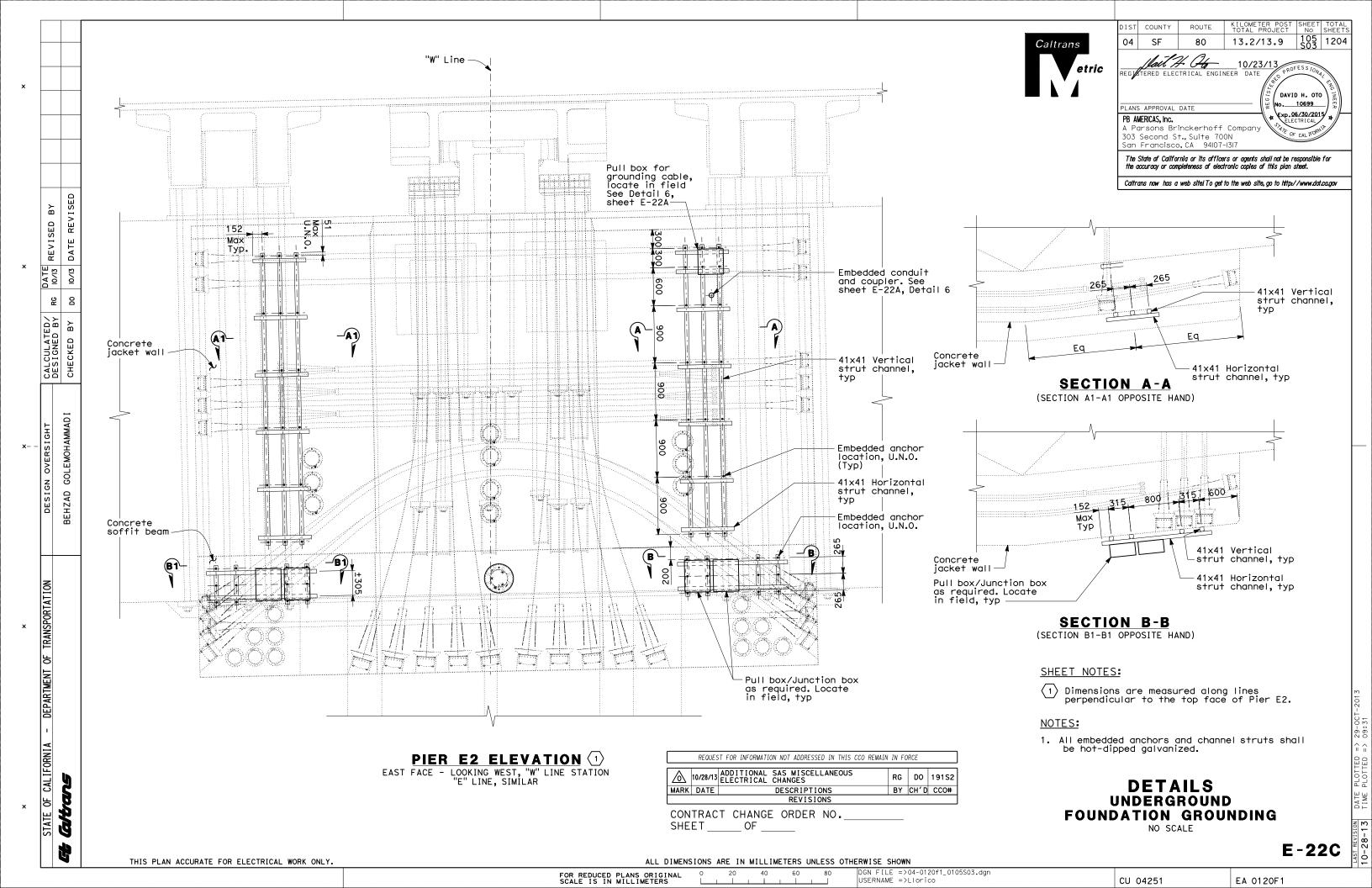
Exp. 12/31/2008/ ELECTRICAL

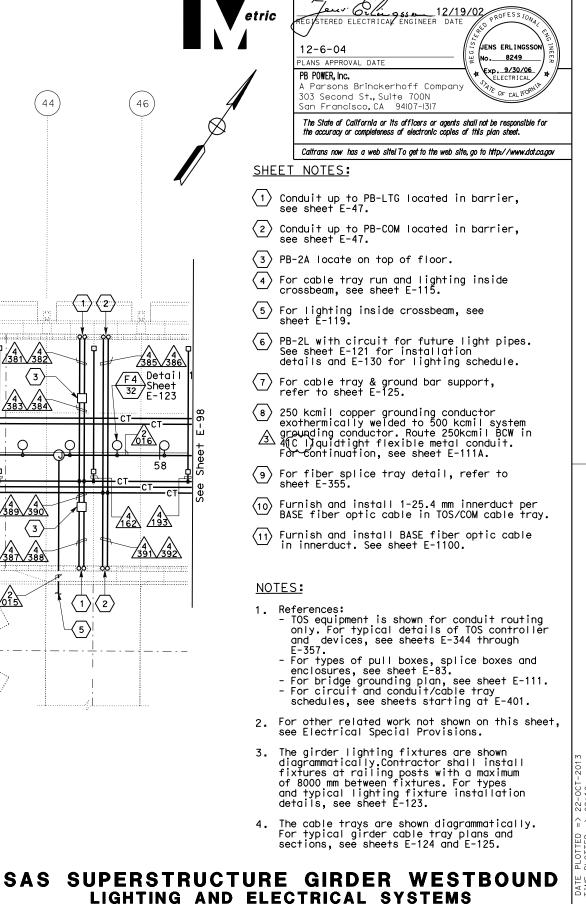
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COUNTY

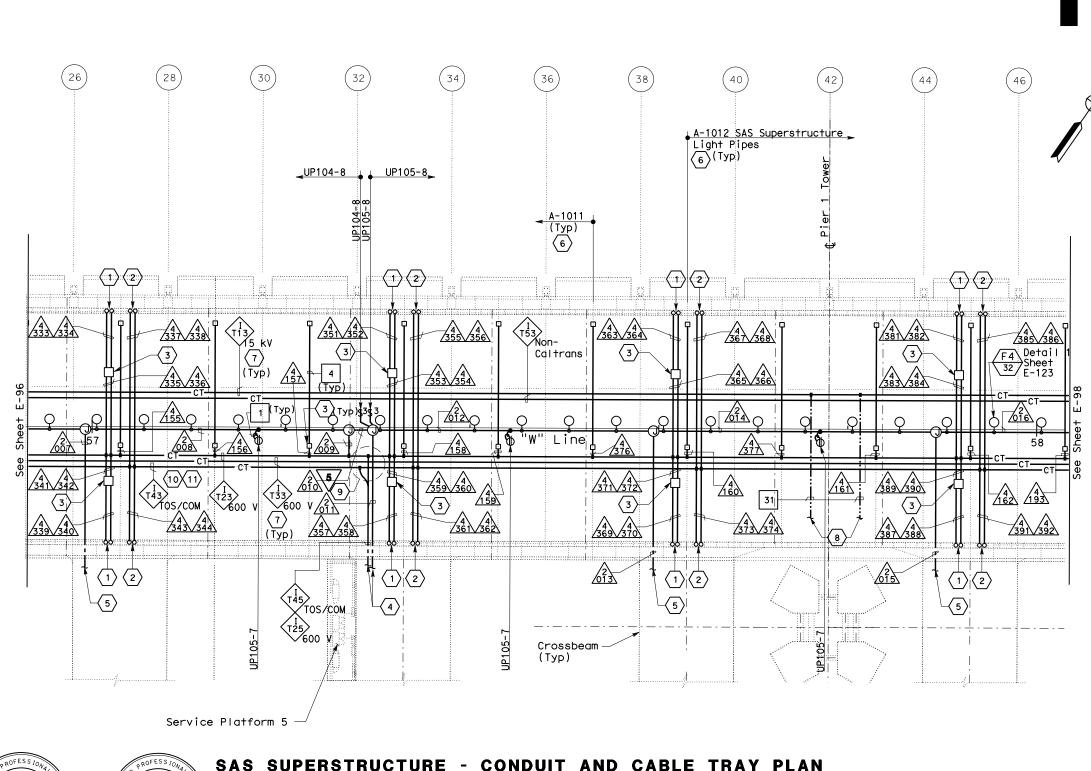
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80

13.2/13.9

1204

04



SAS SUPERSTRUCTURE - CONDUIT AND CABLE TRAY PLAN

SYN YEE CHIN	DAVID H. OTO				
₩ \No. <u>18186</u> ∰	No. 10699			REQUES1	FOR INFORMATION NOT ADDRESSED IN THIS CCO
# Exp. 09/30/2011 #	# Exp.06/30/2013 #		3	10/23/13	ADDITIONAL SAS MISCELLANEOUS ELECTRICAL CHANGES
OF CALIFORNIA	OF CAL IFORNIA		2	04/27/12	ELECTRICAL GROUNDING
Symfee Chin	Soit H. Oto		Λ	03/01/11	BASE INTEGRATION
FOR KEVISION ONLY	FOR REVISION ONL	LY	MARK	DATE	DESCRIPTIONS
^	^ ^				REVISIONS
/1\	/2\/3\				

REVISED

В

REVISED DATE

DATE 8/02 8/02

CALCULATED/ DESIGNED BY CHECKED BY

GOLEMOHAMMAD I

BEHZAD

TRANSPORTATION

DEPARTMENT

CALIFORNIA

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THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

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> CONTRACT CHANGE ORDER NO. OF SHEET

REMAIN IN FORCE

RSB RG

RSB WB

RR RSB RG 191S2

BY CH'D CCO#

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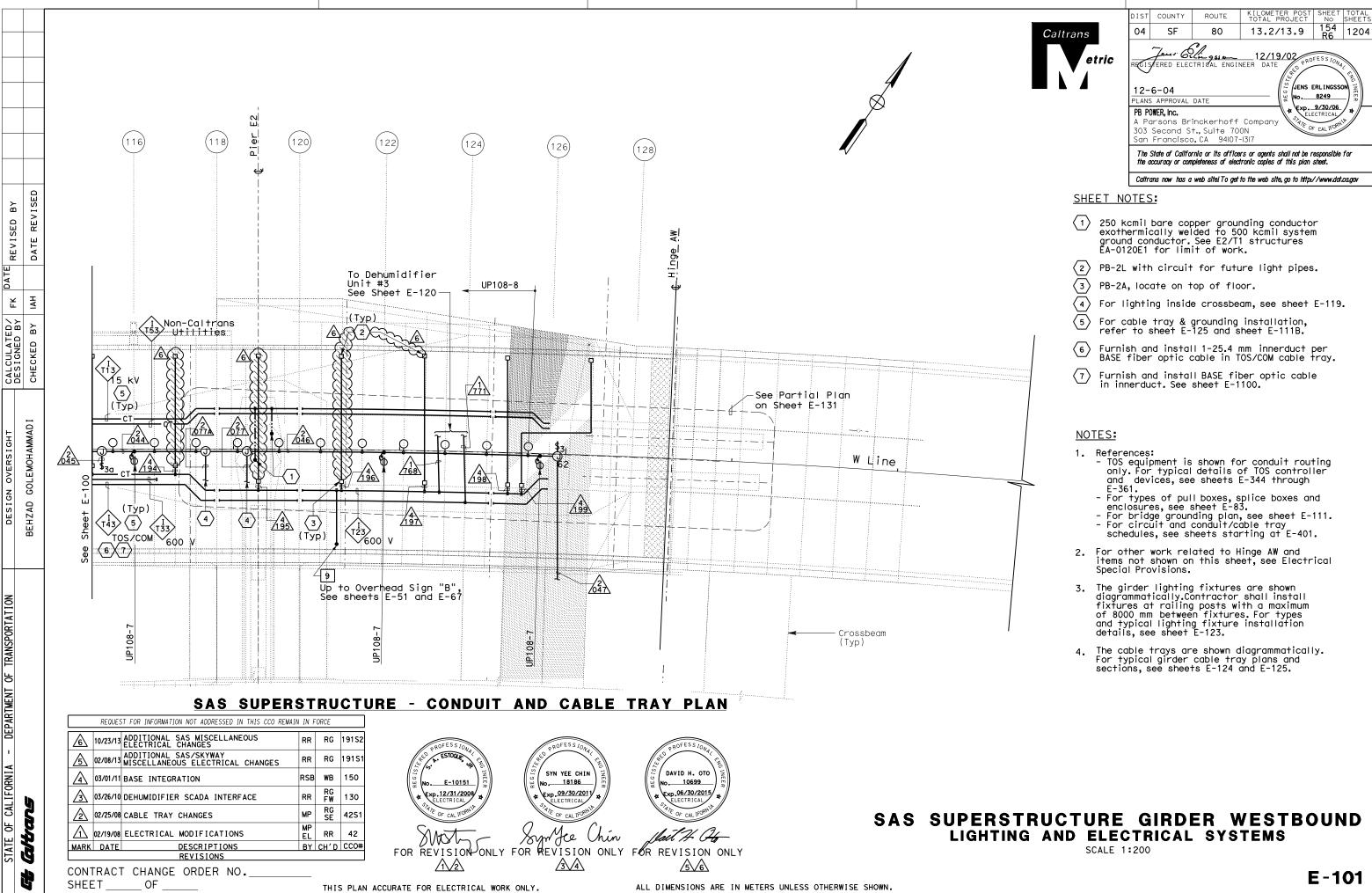
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CU 04251

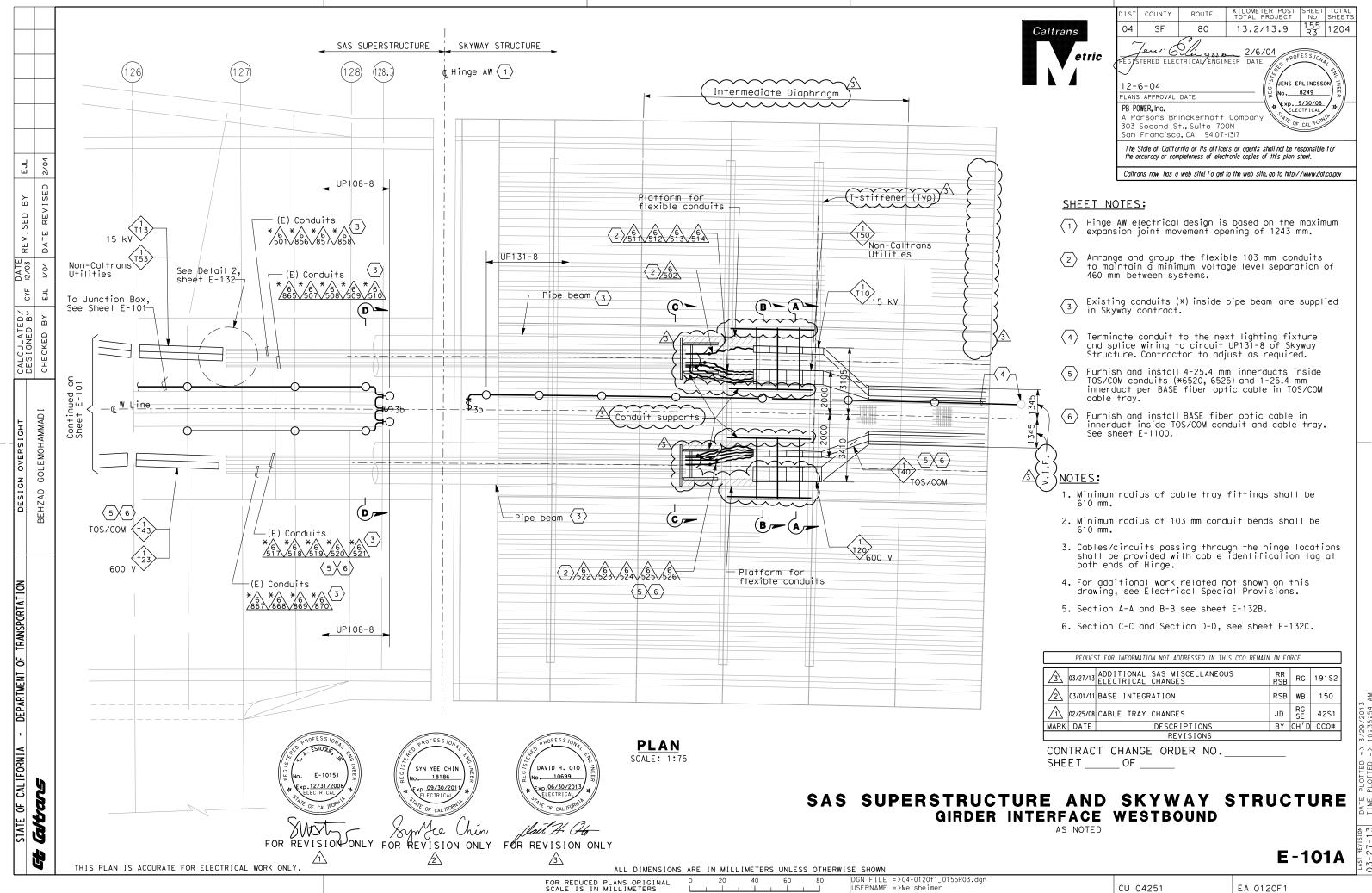
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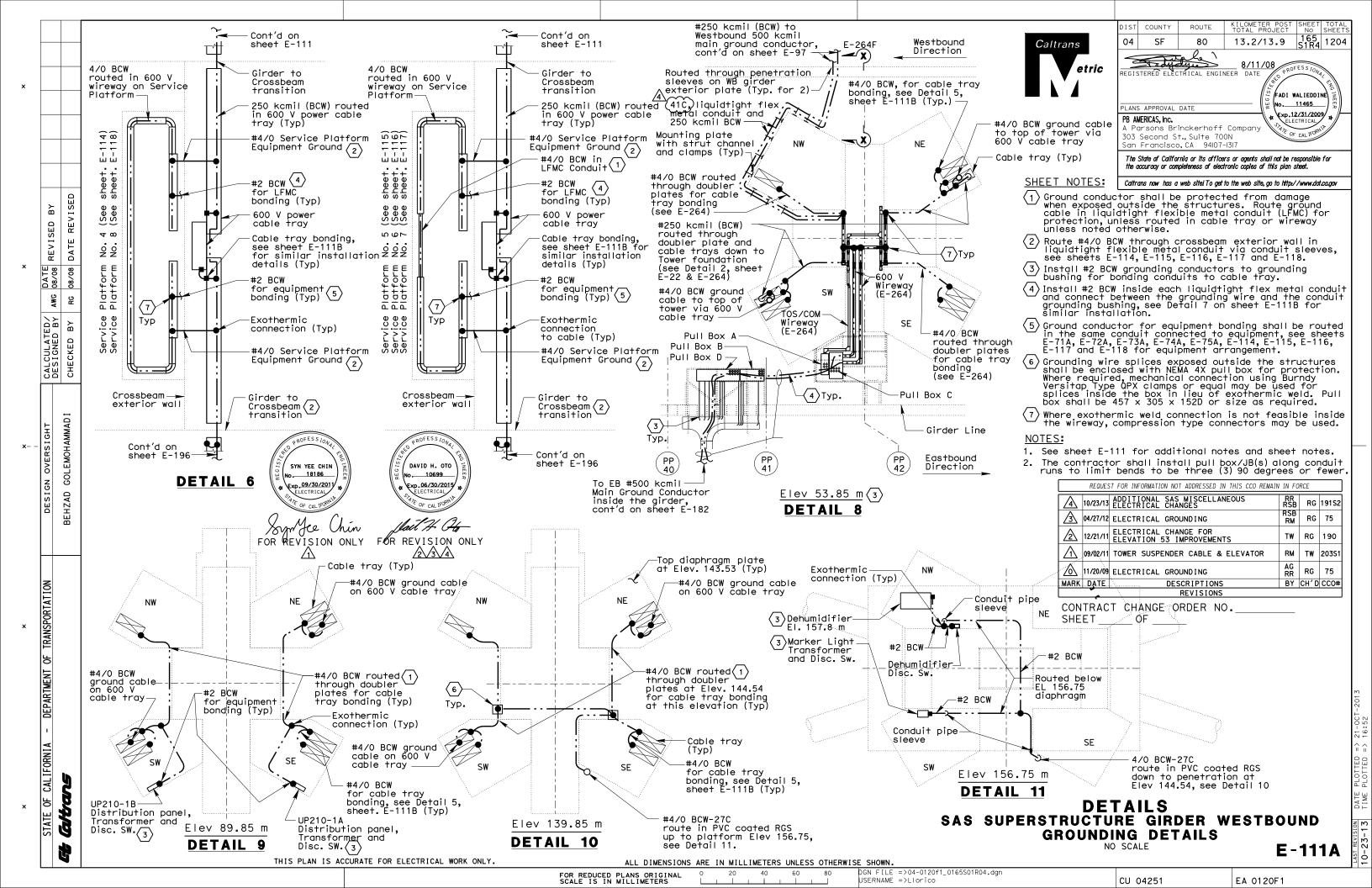
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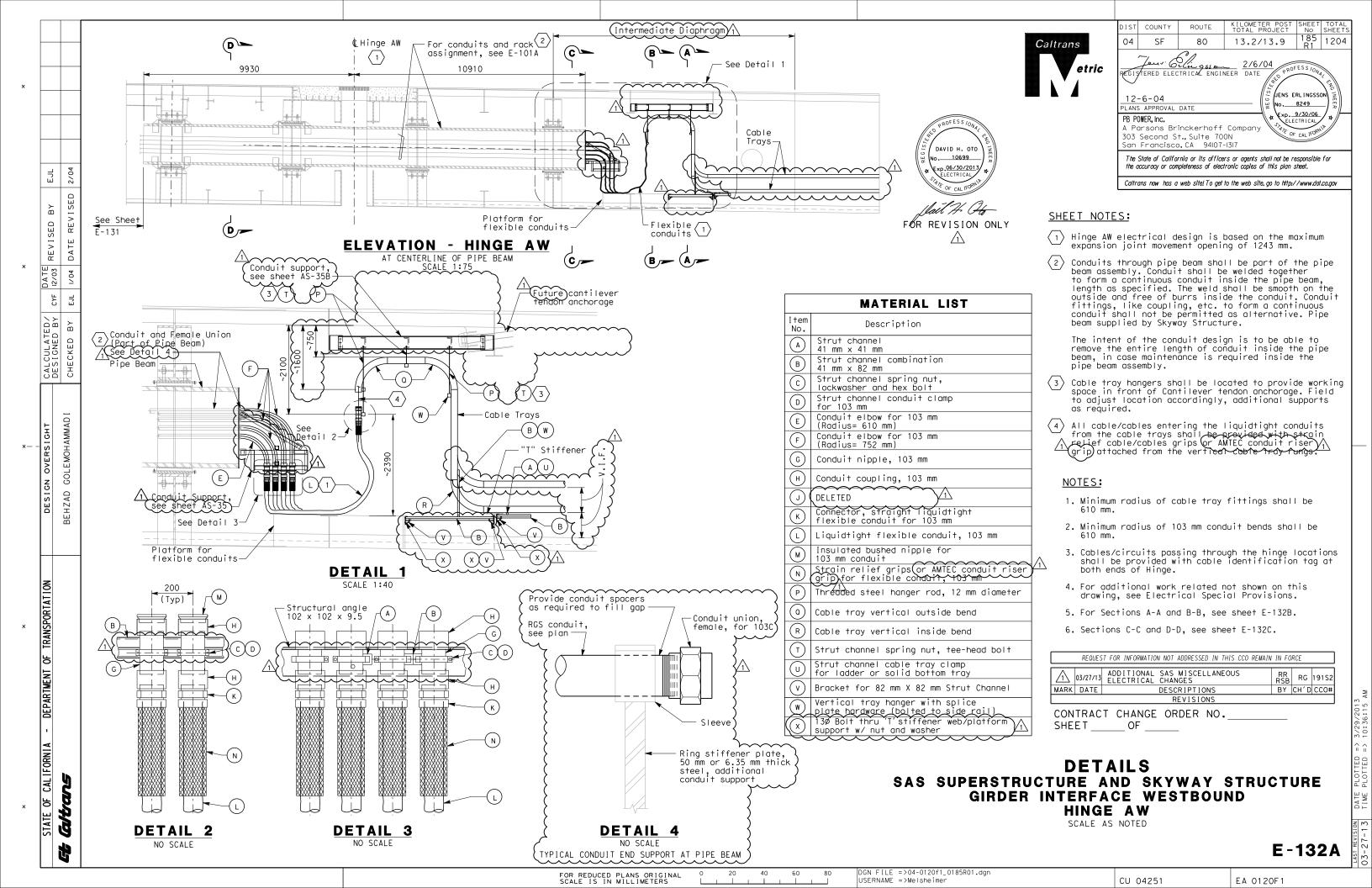
CU 04251

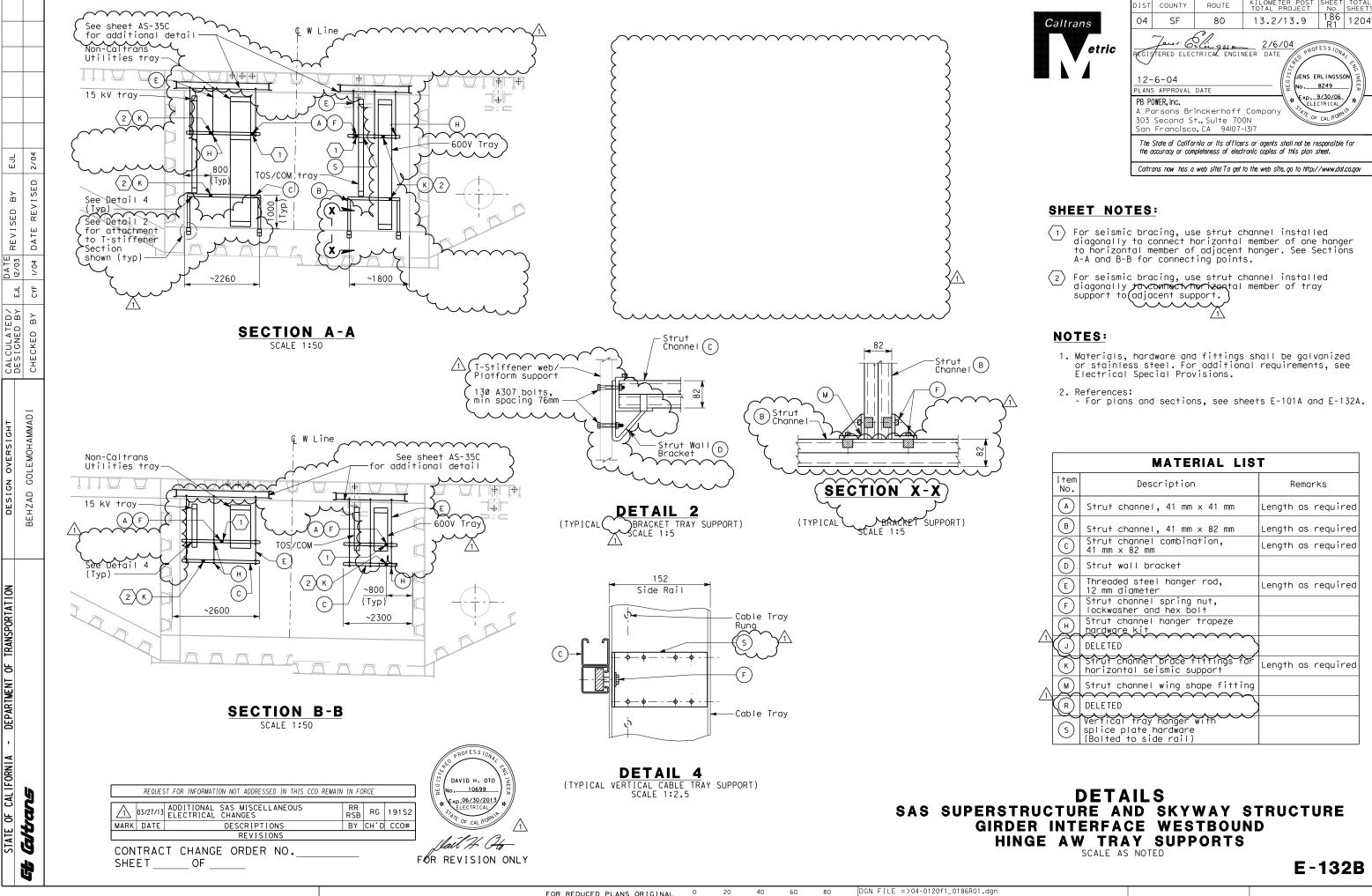


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CU 04251

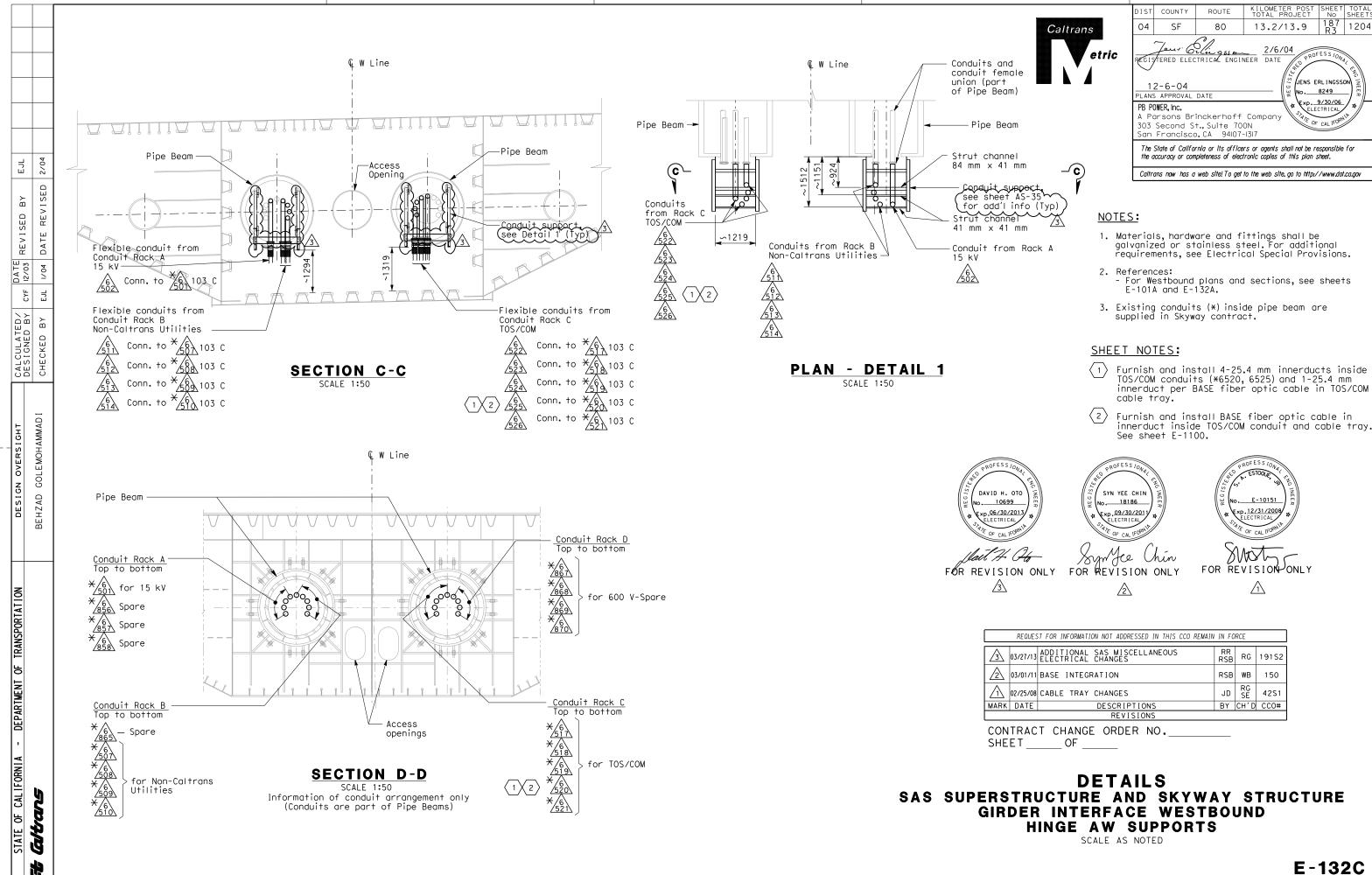






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USERNAME =>Melsheimer



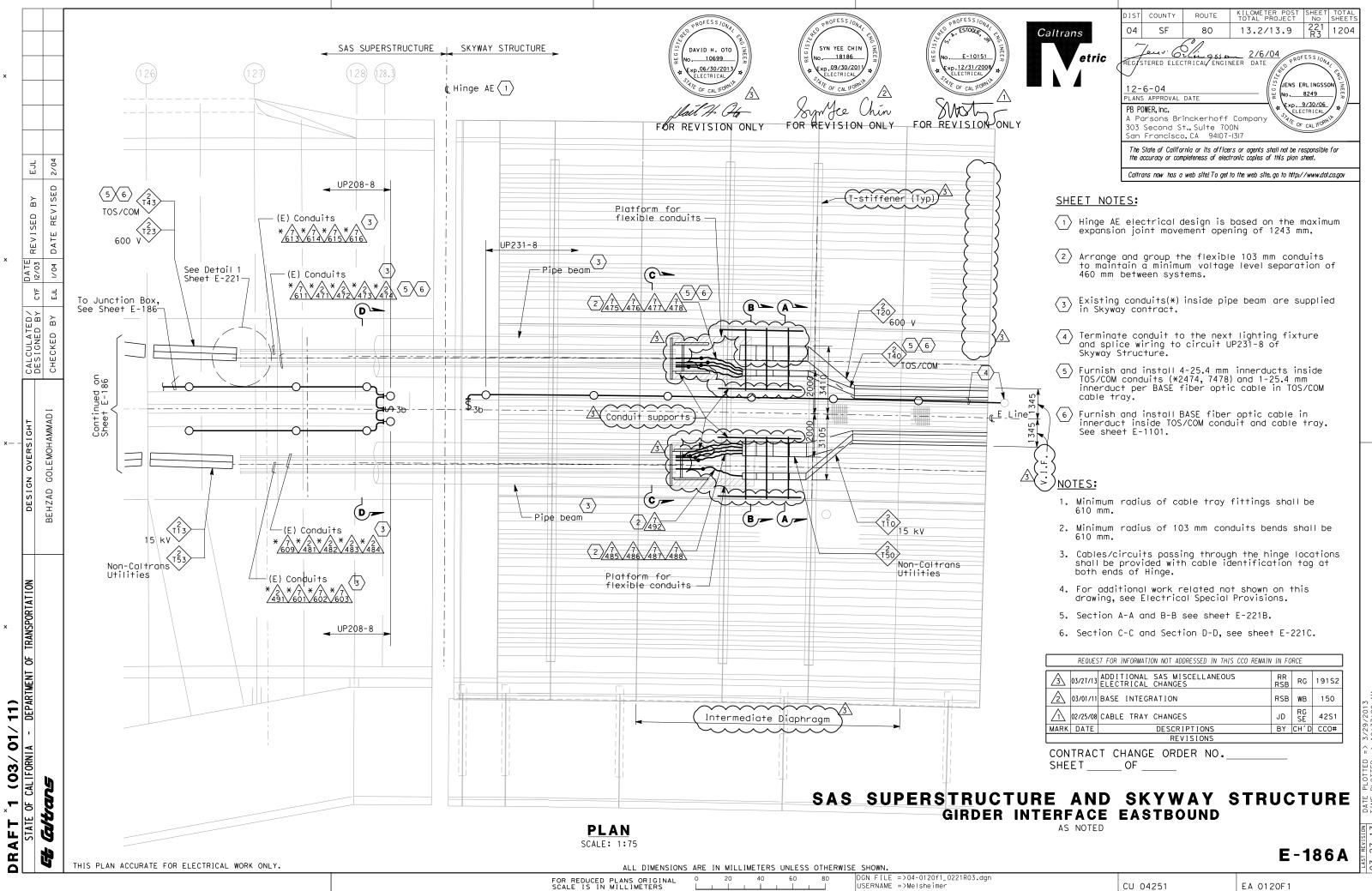
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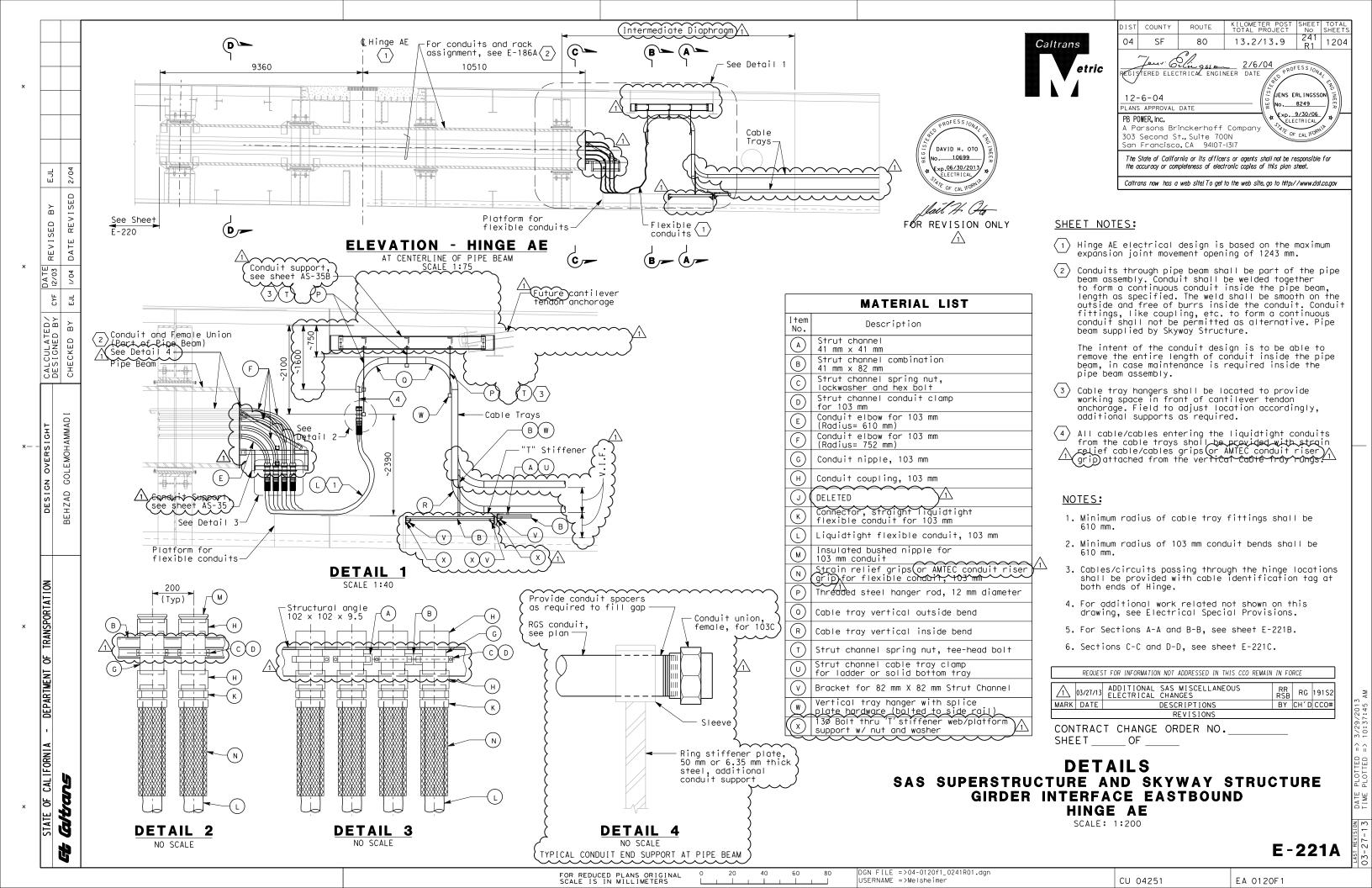
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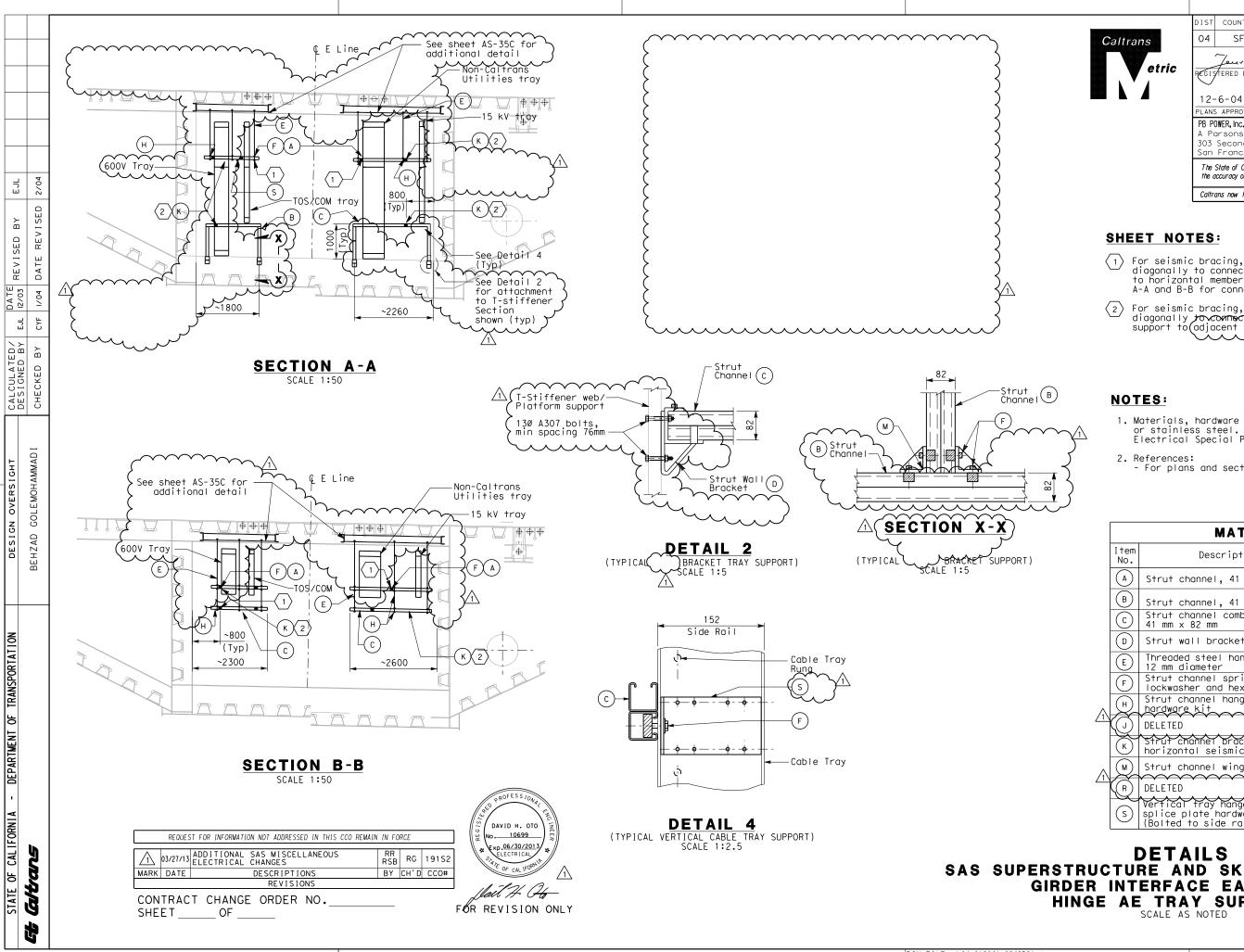


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CU 04251





COUNTY 04 SF 80 13.2/13.9 1204

FEGISTERED ELECTRICAL ENGINEER DATE / JENS ERLINGSSO

PLANS APPROVAL DATE

PB POWER, Inc.

A Parsons Brinckerhoff Compar 303 Second St., Suite 700N San Francisco, CA 94107-1317

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8249

Exp. 9/30/06 ELECTRICAL

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- For seismic bracing, use strut channel installed diagonally to connect horizontal member of one hanger to horizontal member of adjacent hanger. See Sections A-A and B-B for connecting points.
- For seismic bracing, use strut channel installed diagonally to comment the izental member of tray support to adjacent support.
- 1. Materials, hardware and fittings shall be galvanized or stainless steel. For additional requirements, see Electrical Special Provisions.
 - For plans and sections, see sheets E-186A and E-221A.

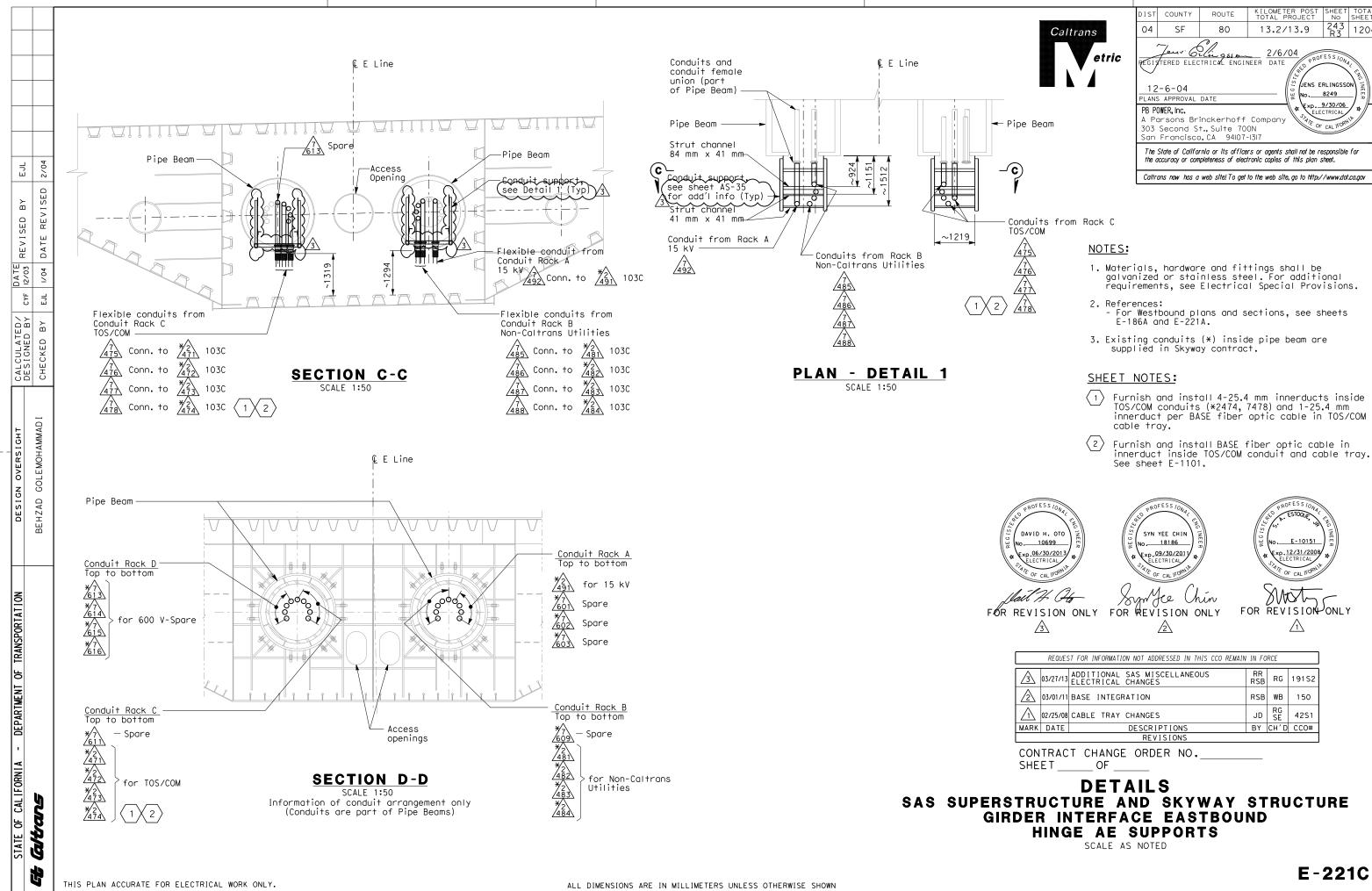
	MATERIAL LIST											
Item No.	Description	Remarks										
(A)	Strut channel, 41 mm x 41 mm	Length as required										
В	Strut channel, 41 mm x 82 mm	Length as required										
(C)	Strut channel combination, 41 mm x 82 mm	Length as required										
0	Strut wall bracket											
E	Threaded steel hanger rod, 12 mm diameter	Length as required										
F	Strut channel spring nut, lockwasher and hex bolt											
Н	Strut channel hanger trapeze											
(DELETED											
K	Strut channel brace fittings for horizontal seismic support	Length as required										
M	Strut channel wing shape fitting											
R	DELETED											
(5)	Verfical tray hanger with splice plate hardware (Bolted to side rail)											

SAS SUPERSTRUCTURE AND SKYWAY STRUCTURE GIRDER INTERFACE EASTBOUND HINGE AE TRAY SUPPORTS

E-221B

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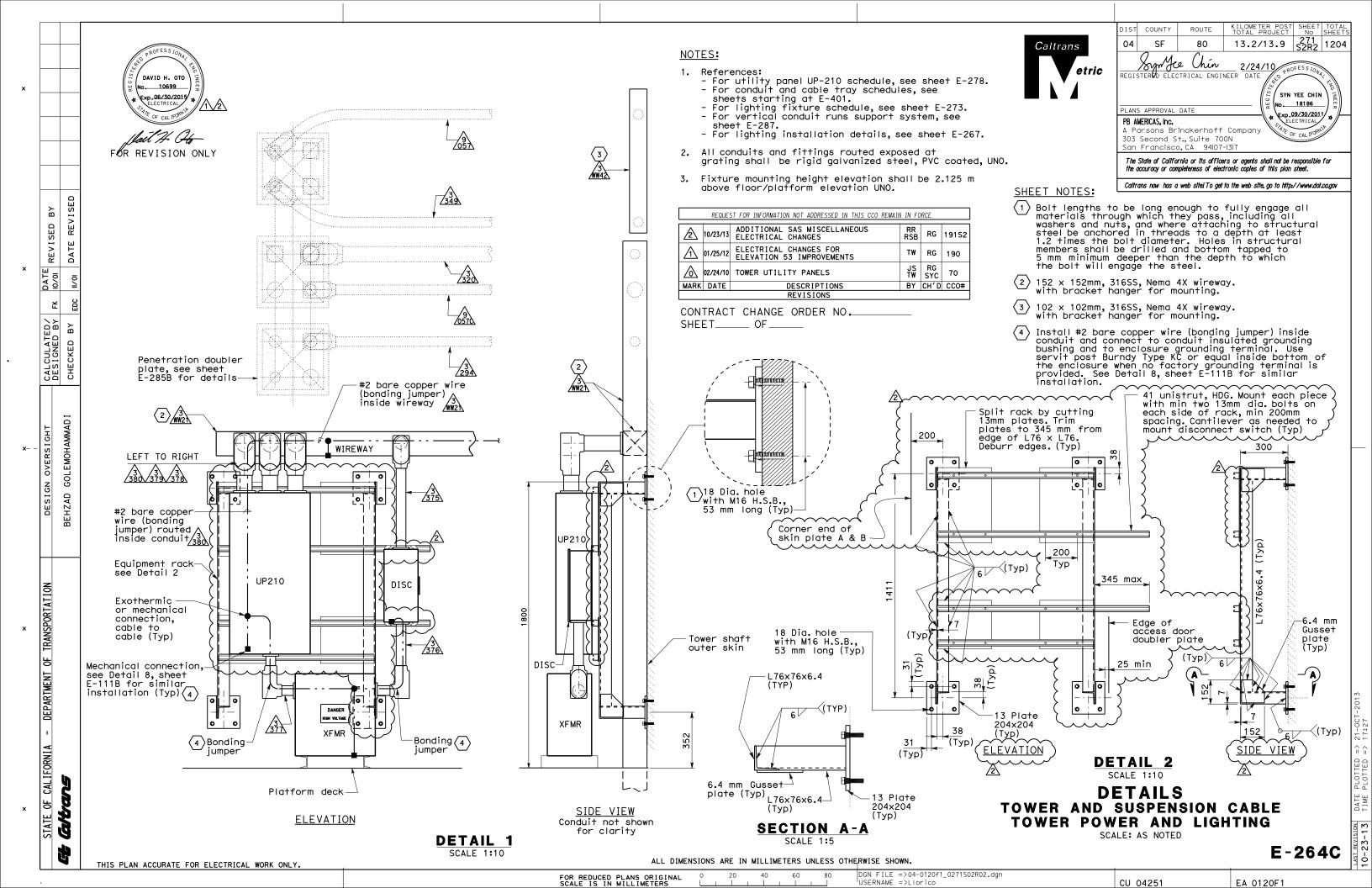
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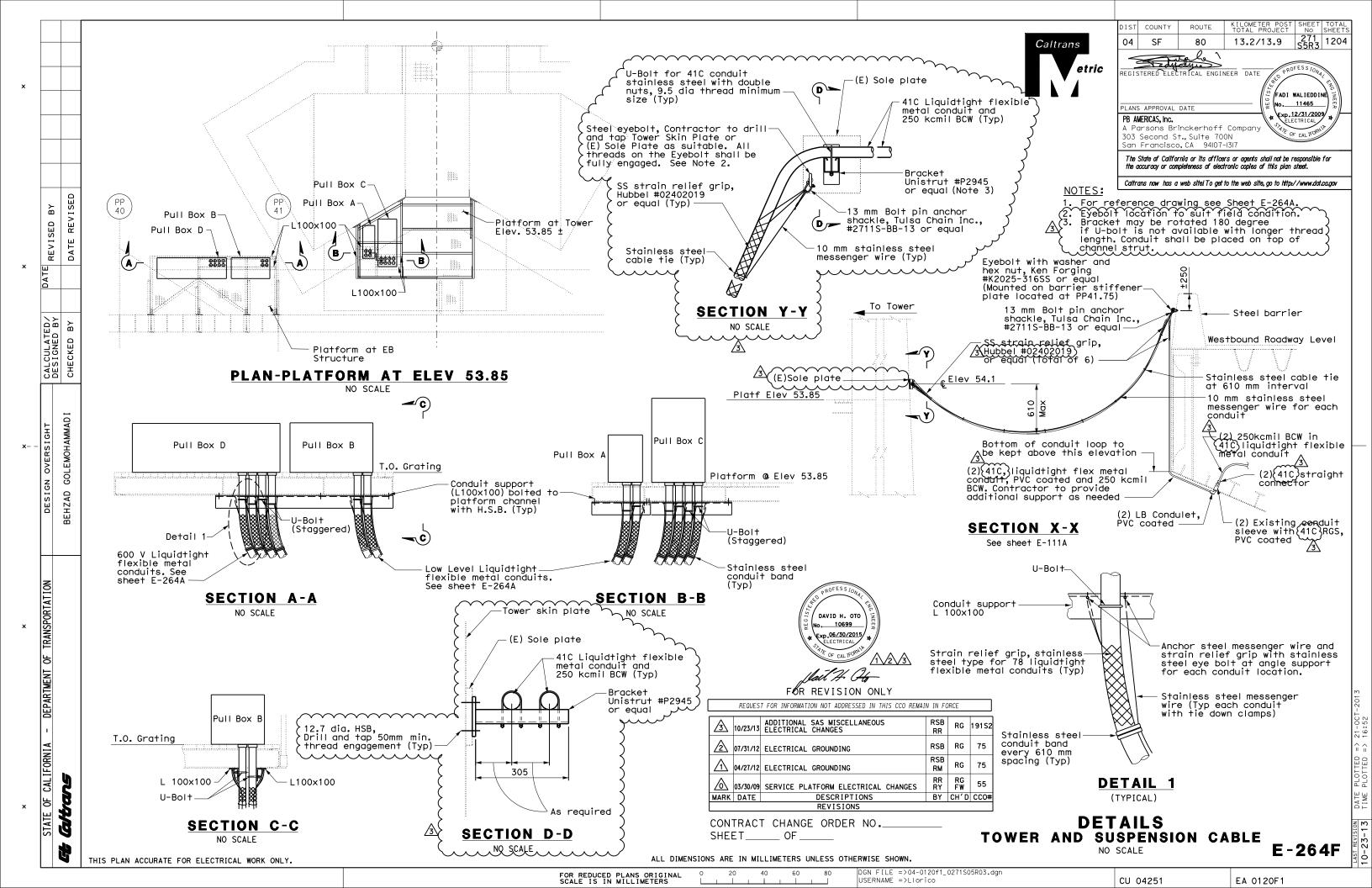


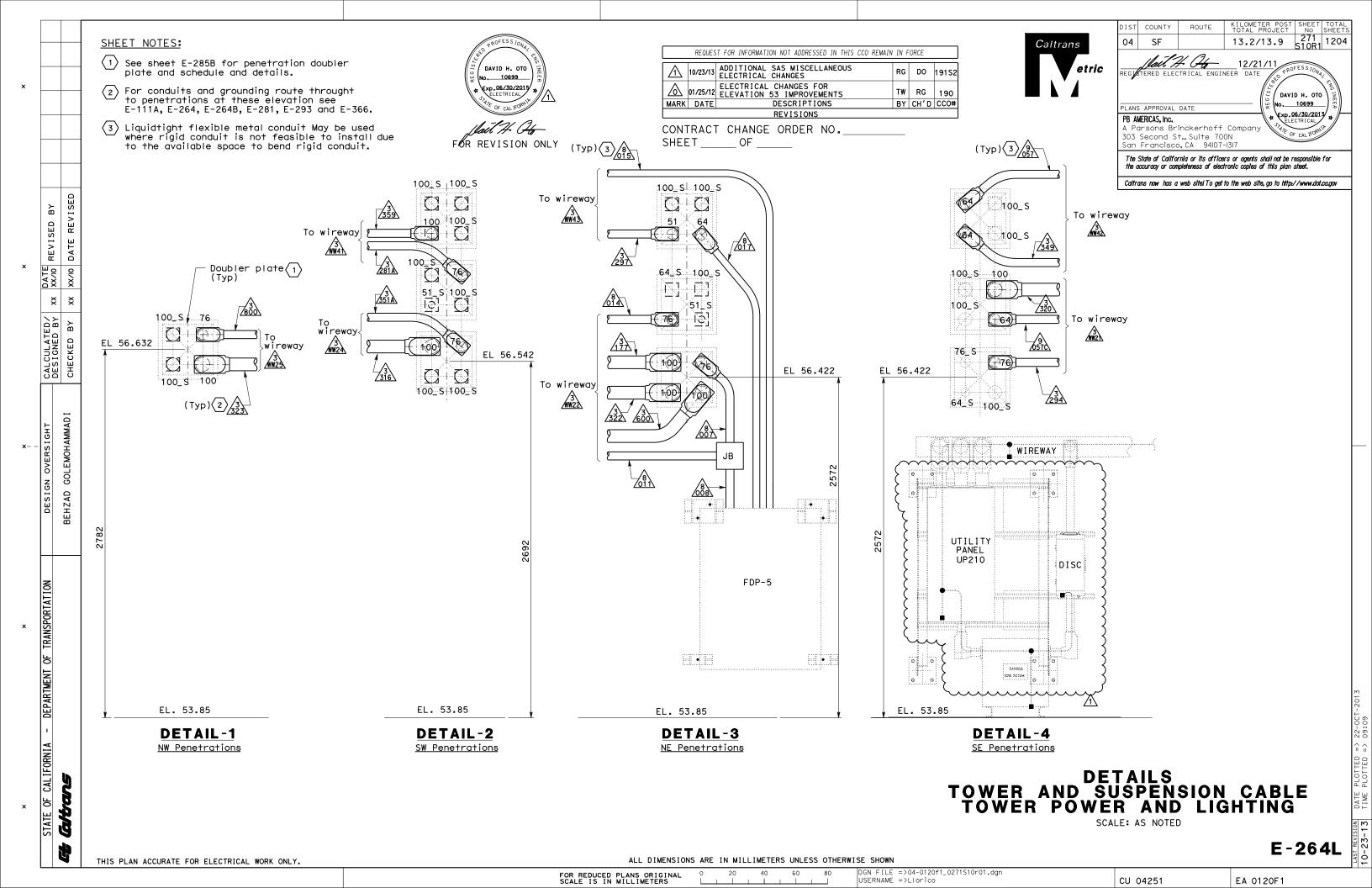
EA 0120F1

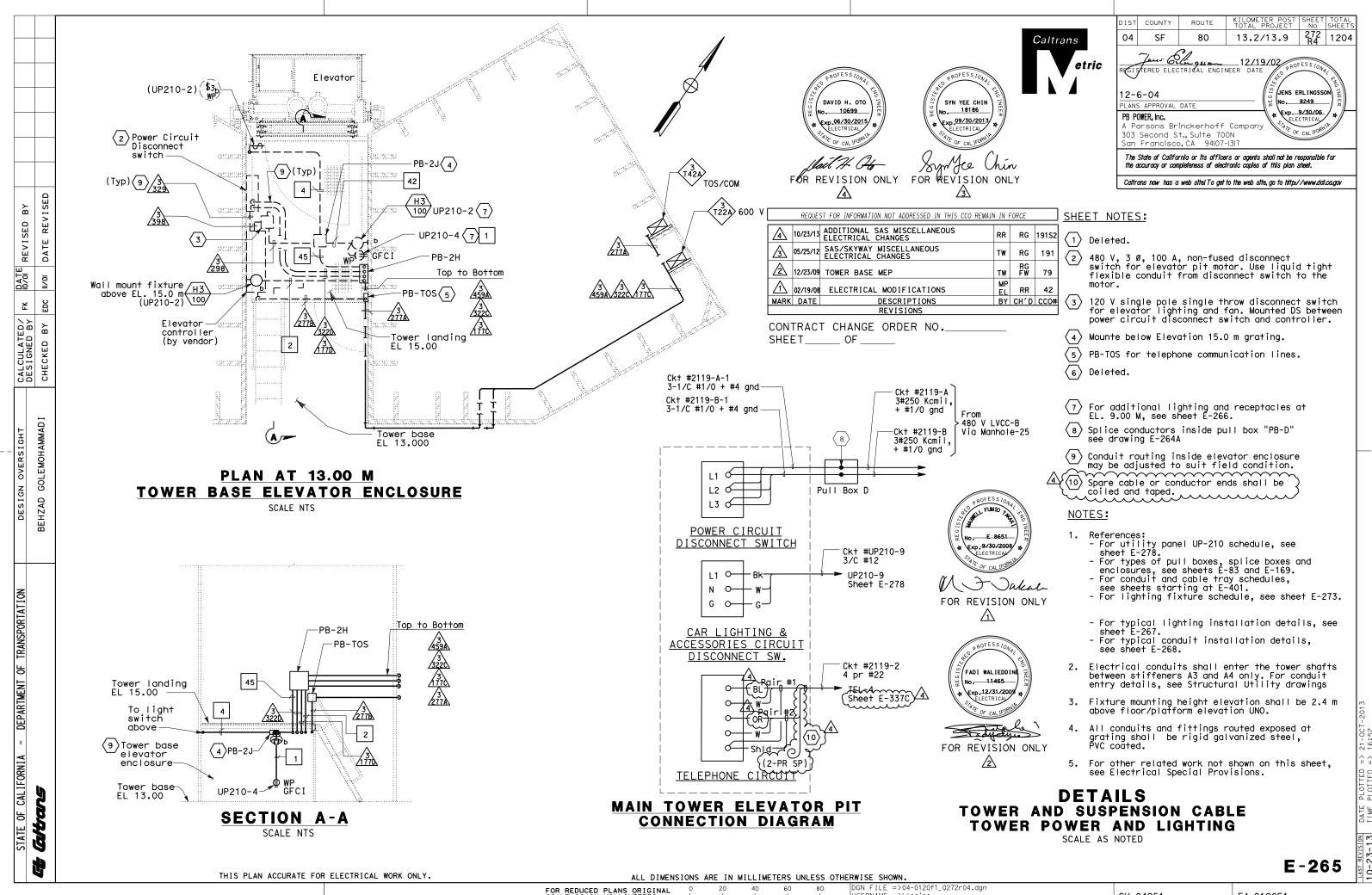
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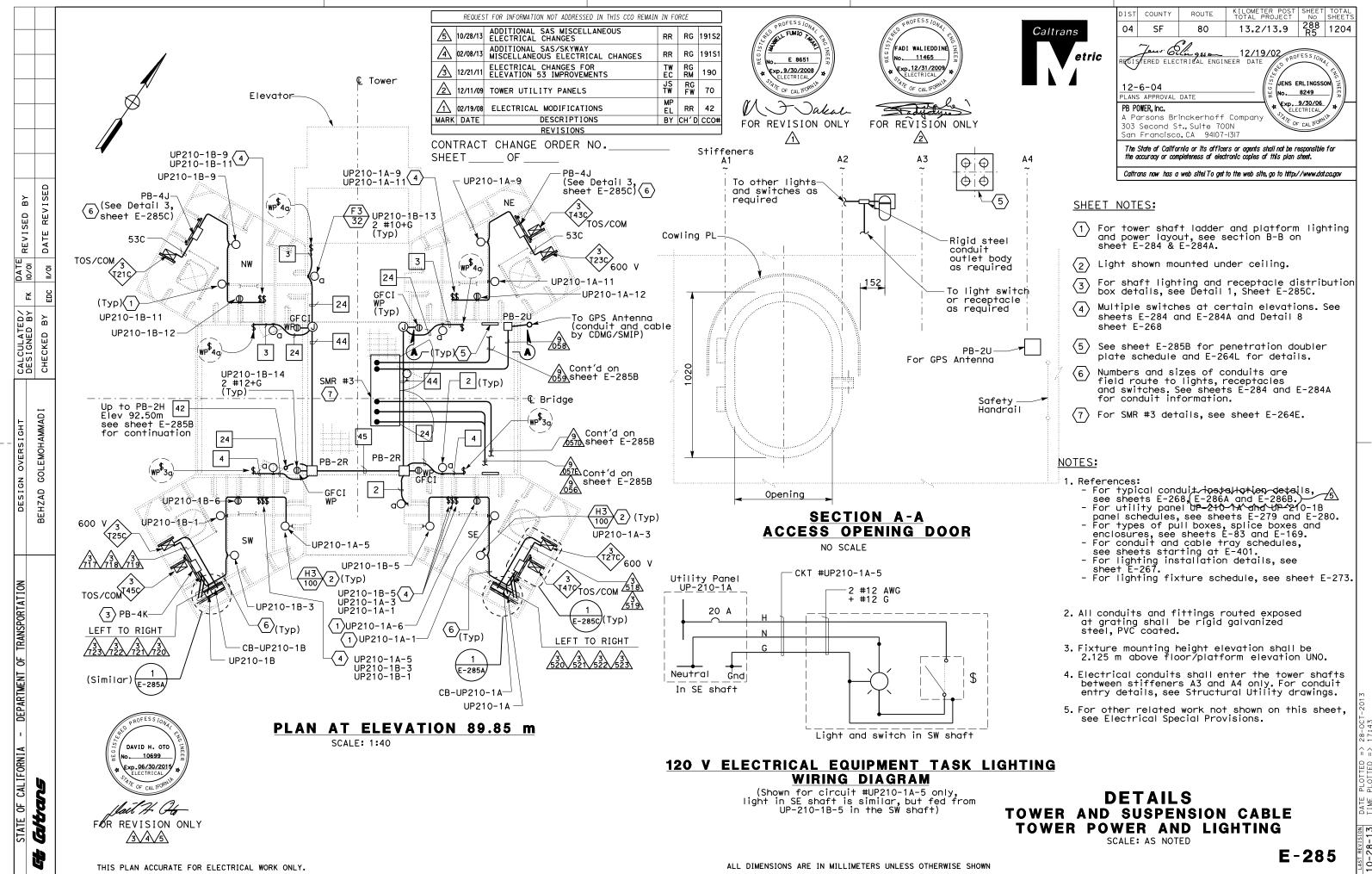


EA 0120F1

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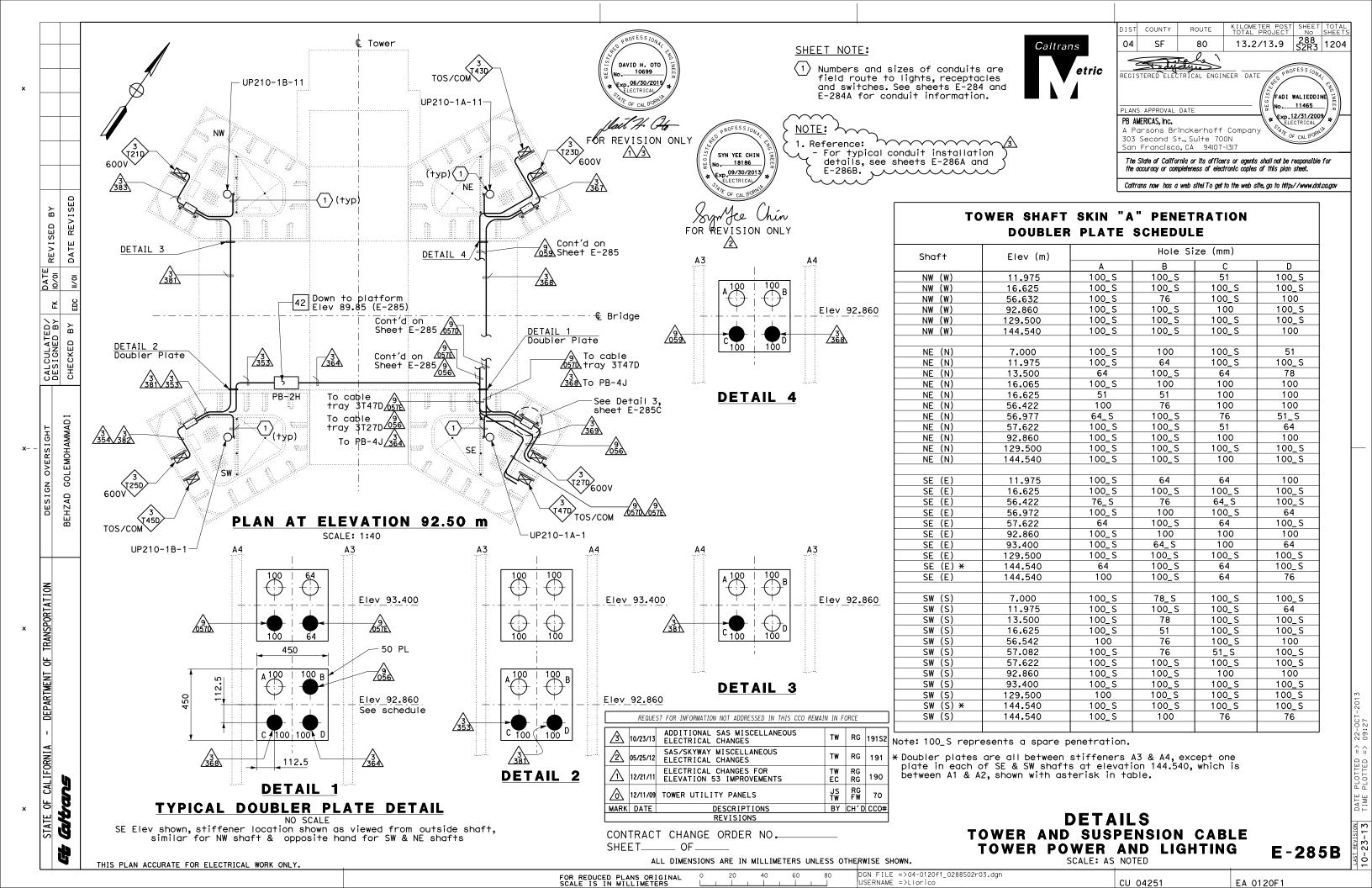
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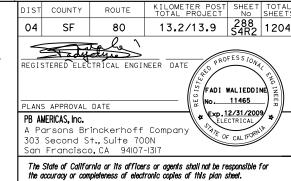
CU 04251



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CU 04251





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NOTES:

1. References:

References:
- For typical conduit installation details, see sheets E-268, E-286A and E-286B.
- For utility panel UP-240-1A and UP-240-1B panel schedules, see sheets E-279 and E-280.
- For types of pull boxes, splice boxes and enclosures, see sheets E-83 and E-169.
- For conduit and cable tray schedules, see sheets starting at E-401.
- For lighting installation details, see sheet E-267.
- For lighting fixture schedule, see sheet E-27

- For lighting fixture schedule, see sheet E-273.

All conduits and fittings routed exposed at grating shall be rigid galvanized steel, PVC coated.

3. Fixture mounting height elevation shall be 2.125 m above floor/platform elevation UNO.

Electrical conduits shall enter the tower shafts between stiffeners A3 and A4 only. For conduit entry details, see Structural Utility drawings.

5. For other related work not shown on this sheet, see Electrical Special Provisions.





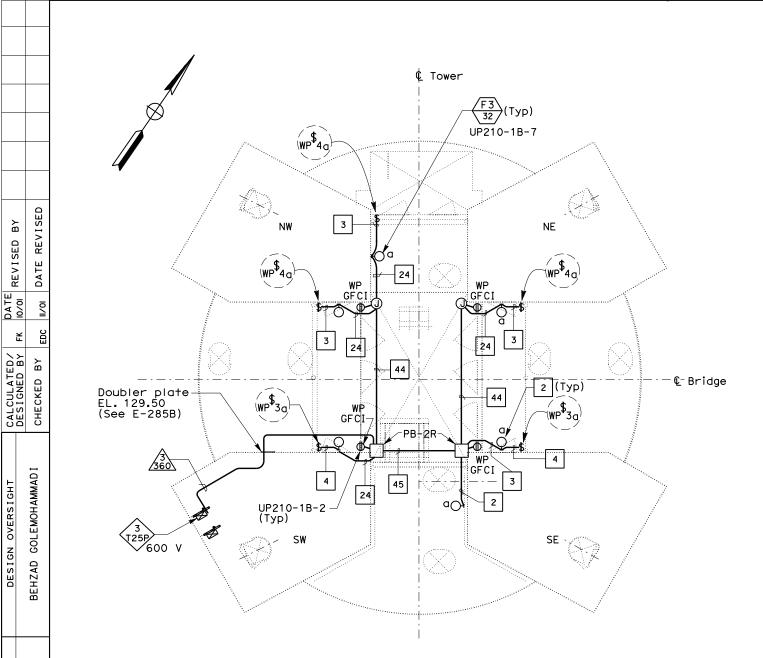
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Λ	05/25/12	SAS/SKYWAY MISCELLANEOUS ELECTRICAL CHANGES	TW	RG	191					
◬	12/11/09	TOWER UTILITY PANELS	SYC	RG FW	70					
MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#					
REVISIONS										

CONTRACT CHANGE ORDER NO. SHEET_____OF___

DETAILS TOWER AND SUSPENSION CABLE TOWER POWER AND LIGHTING

NO SCALE

E-285D



PLAN AT ELEVATION 127.00 m

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.

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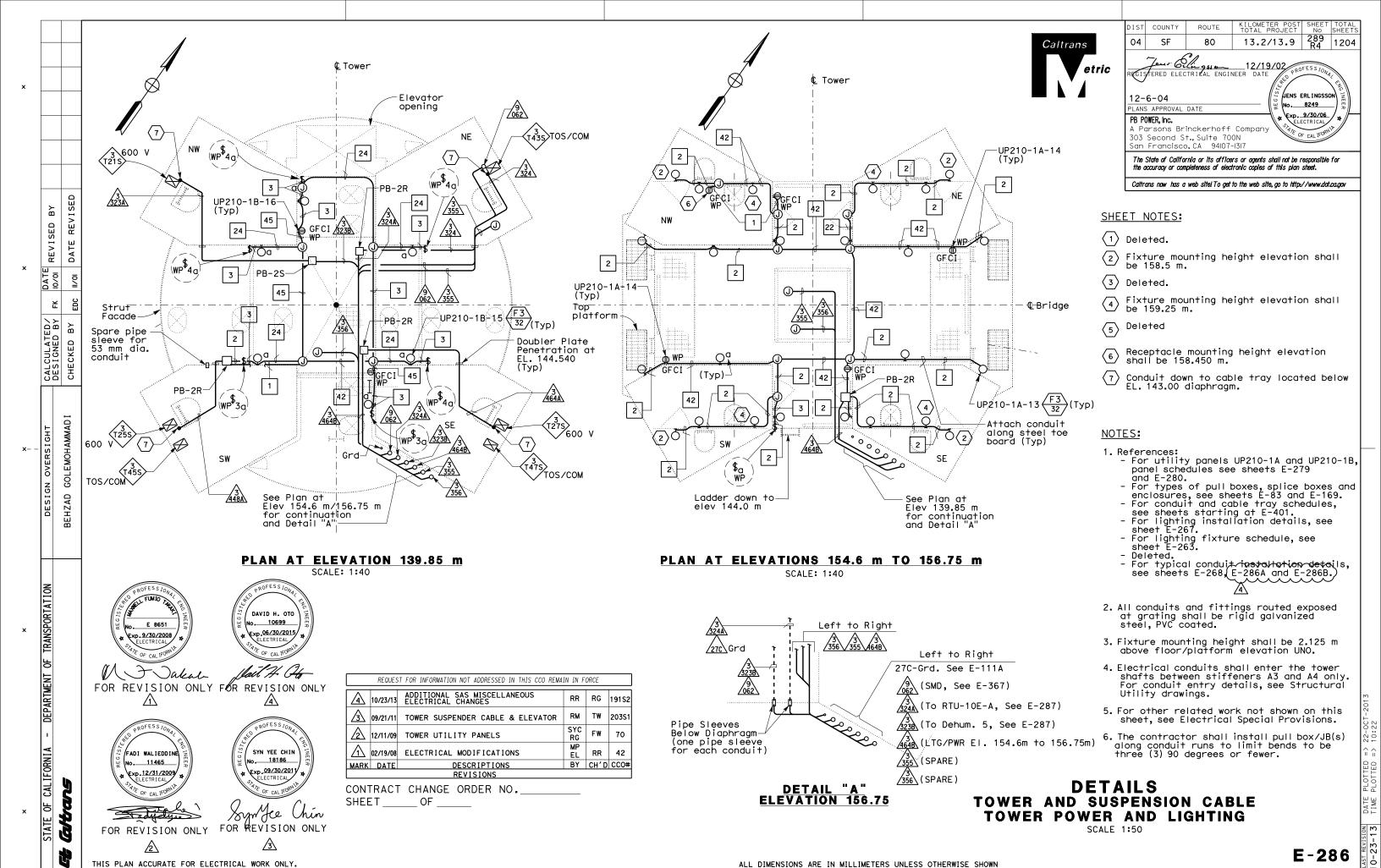
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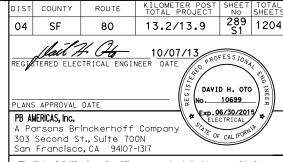
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CU 04251



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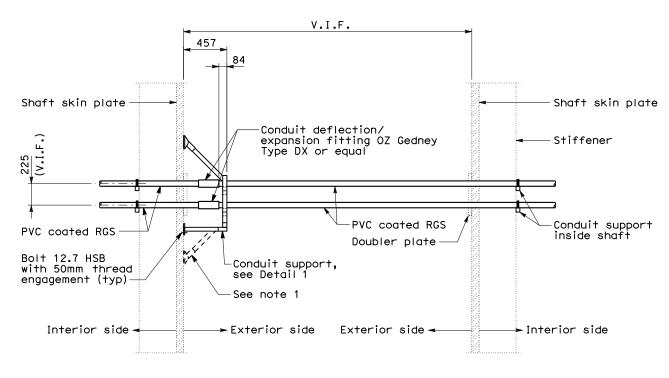


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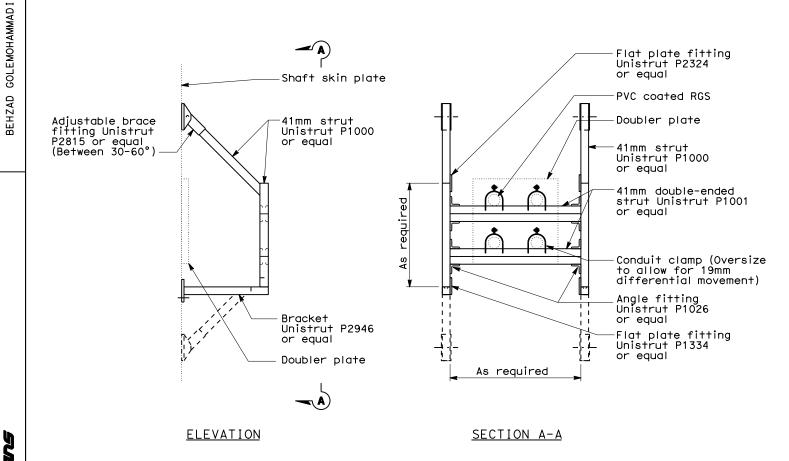
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NOTES:

 Contractor may install the adjustable brace fitting at the bottom if it is not feasible to mount the brace at top. Contractor shall maintain an overhead clearance under the brace per OSHA requirements or as directed by the Engineer in field.



CONDUIT INSTALLATION BETWEEN TOWER SHAFT



DETAIL 1

DETAILS TOWER AND SUSPENSION CABLE TOWER POWER AND LIGHTING

NO SCALE

REQUEST FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE

10/28/13 ADDITIONAL SAS MISCELLANEOUS

CONTRACT CHANGE ORDER NO.

OF

MARK DATE

SHEET

E-286A

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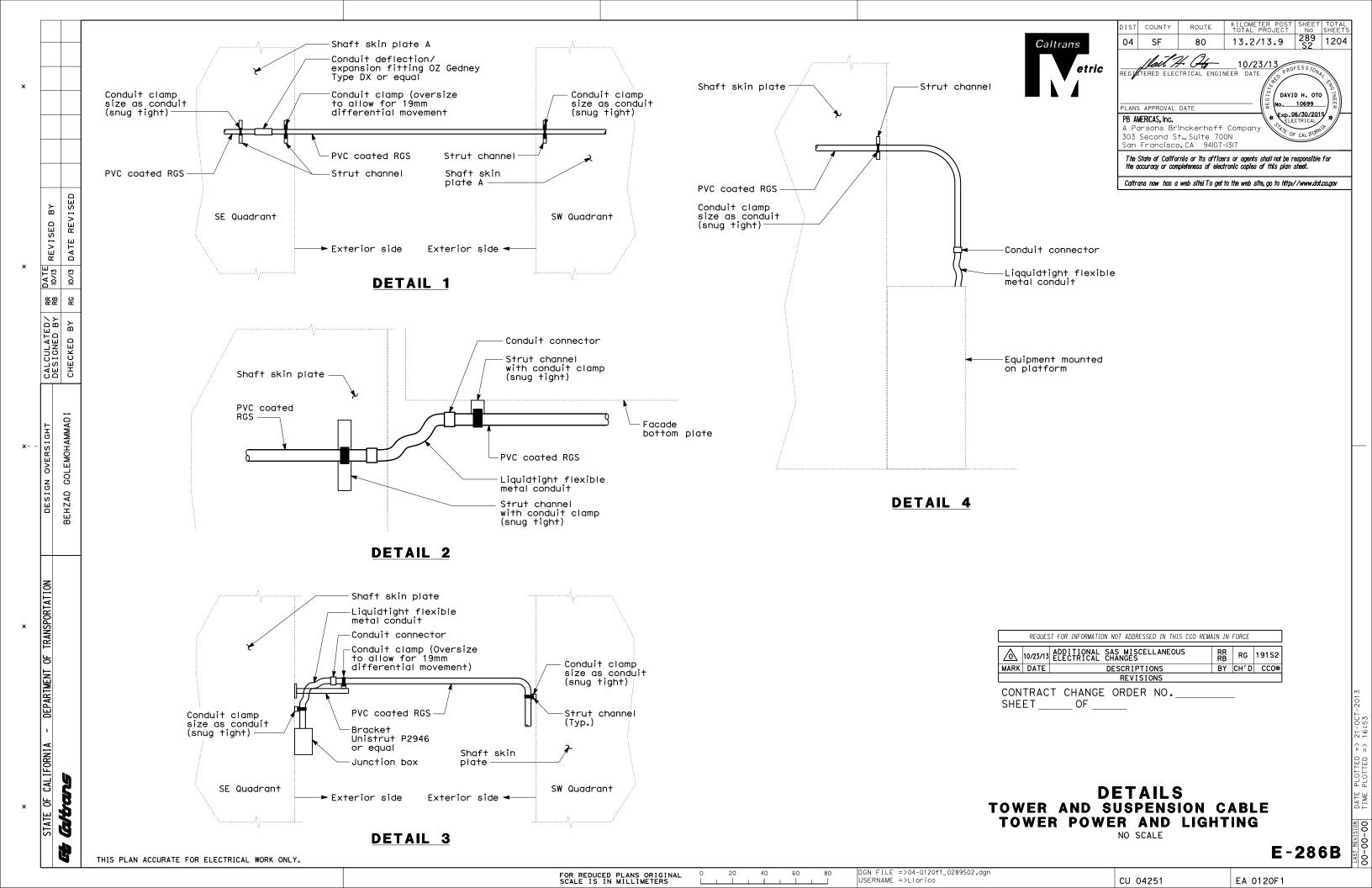
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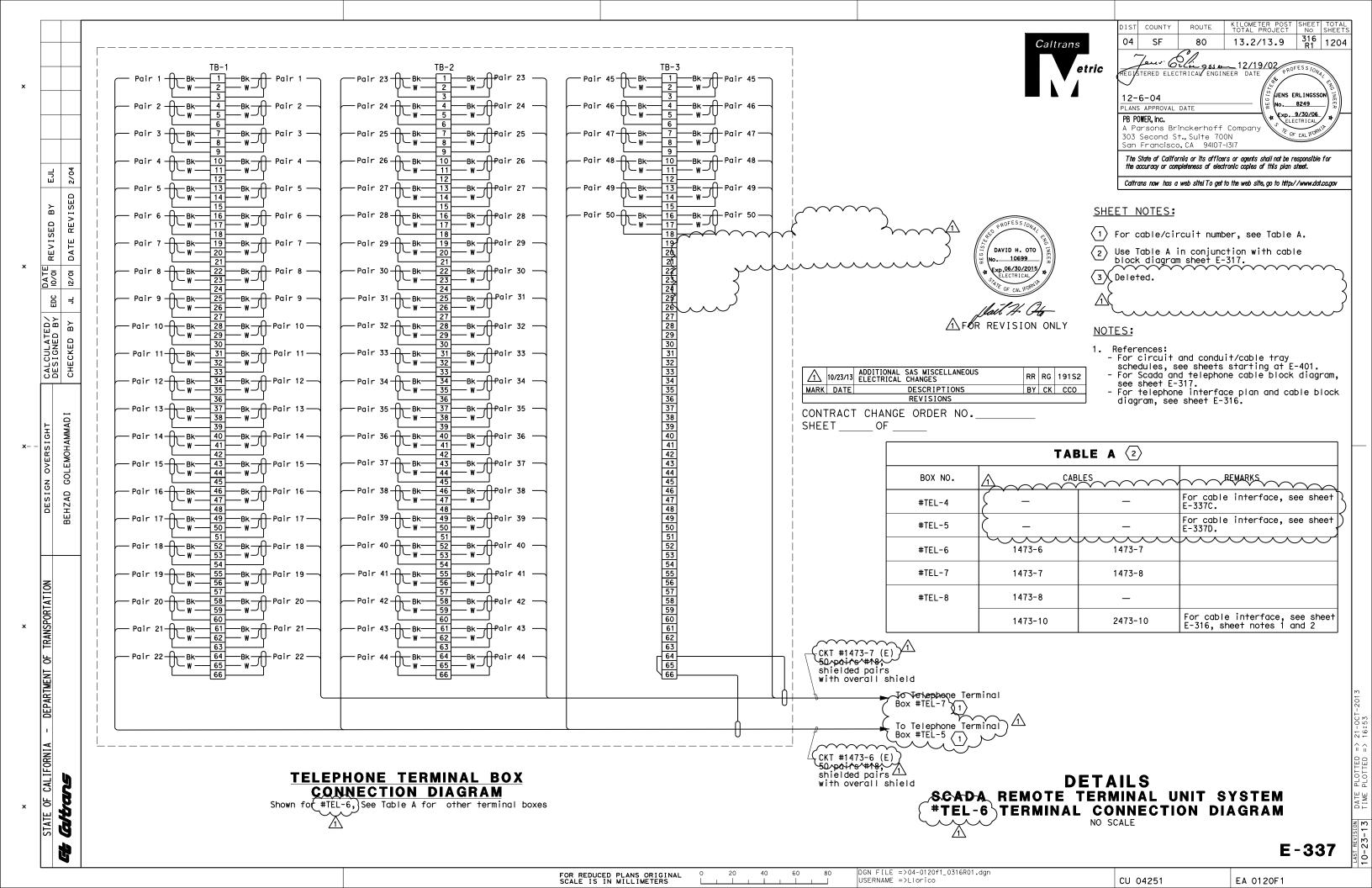
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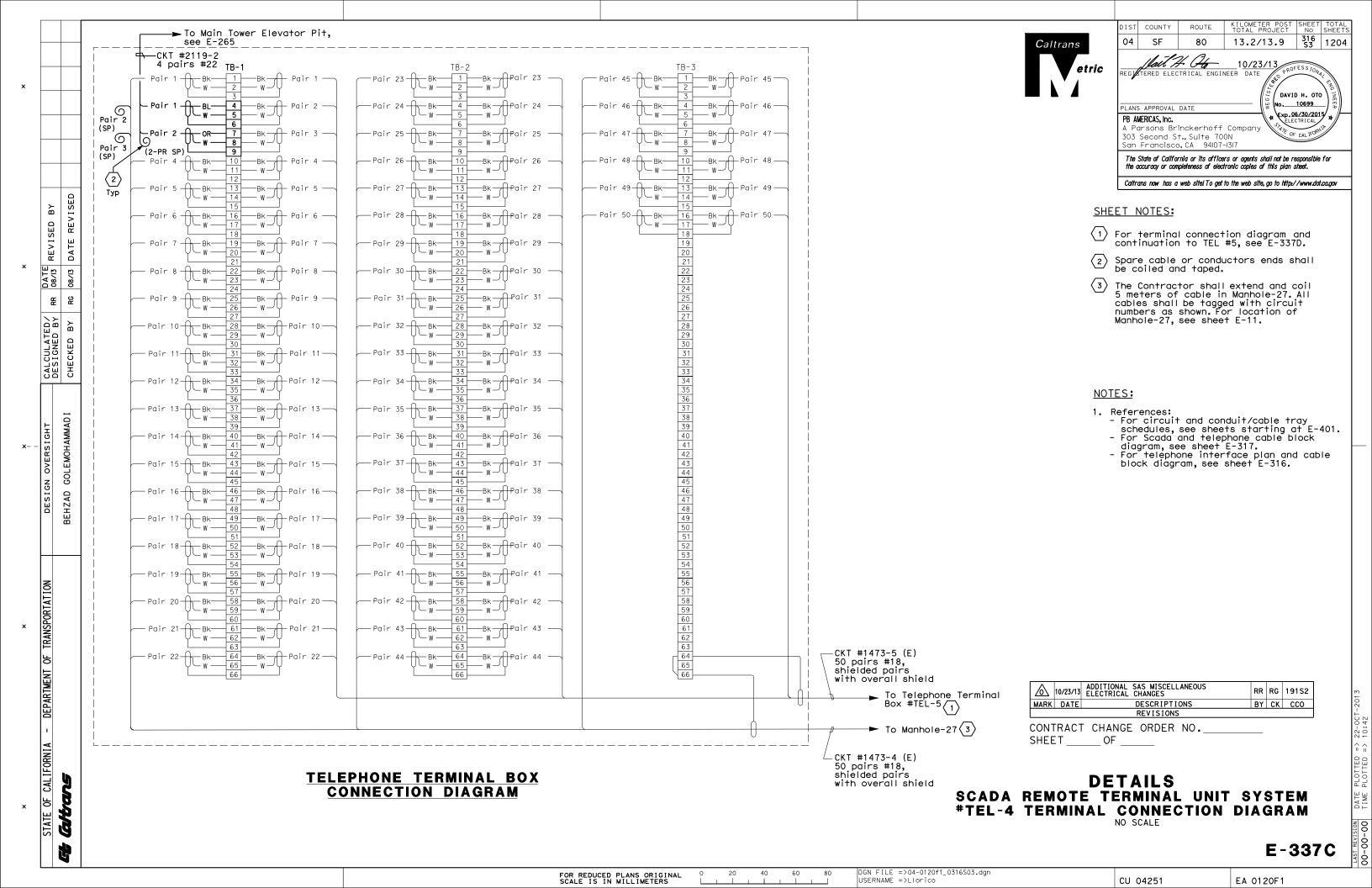
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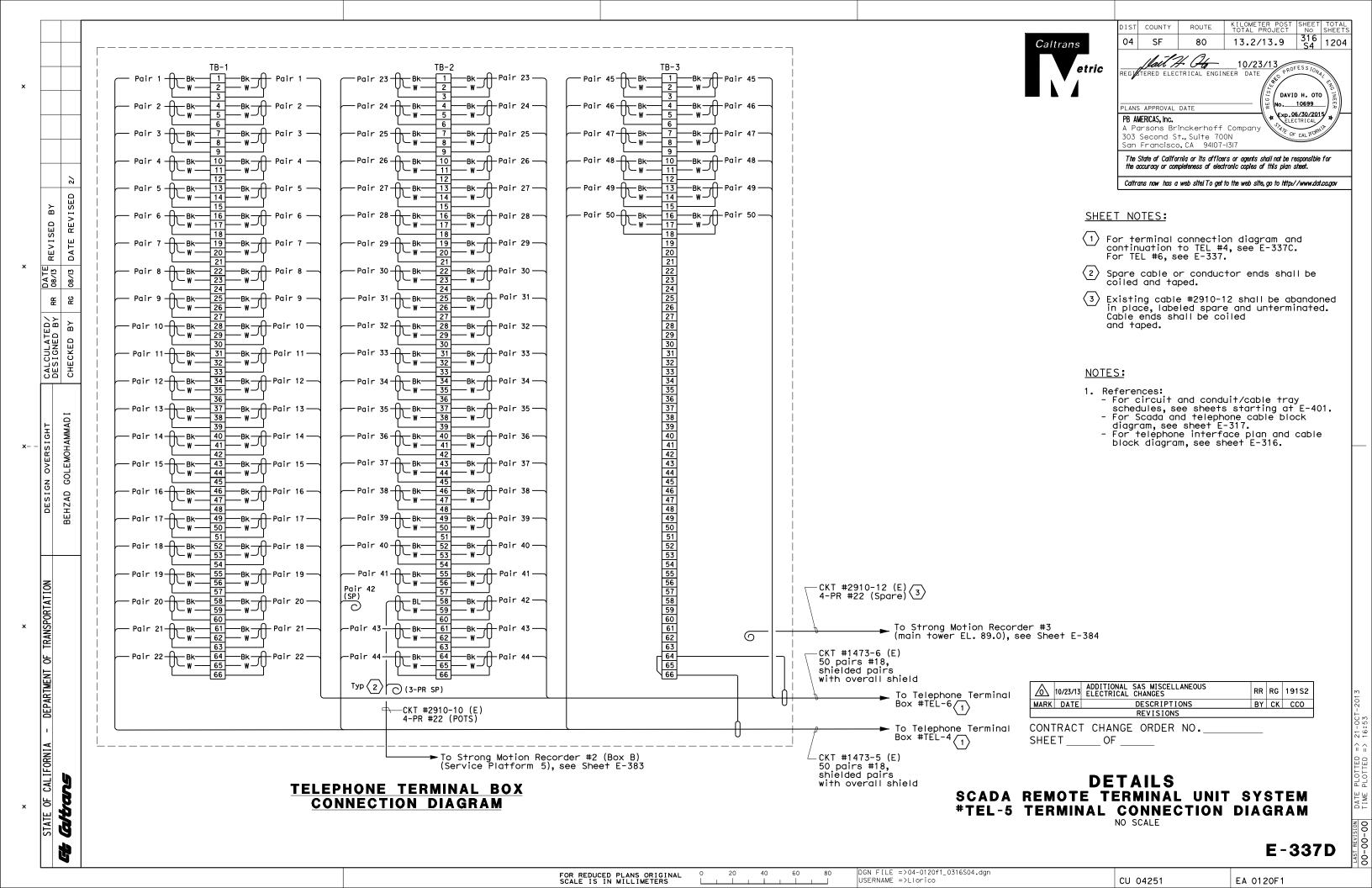
RR RG 191S2

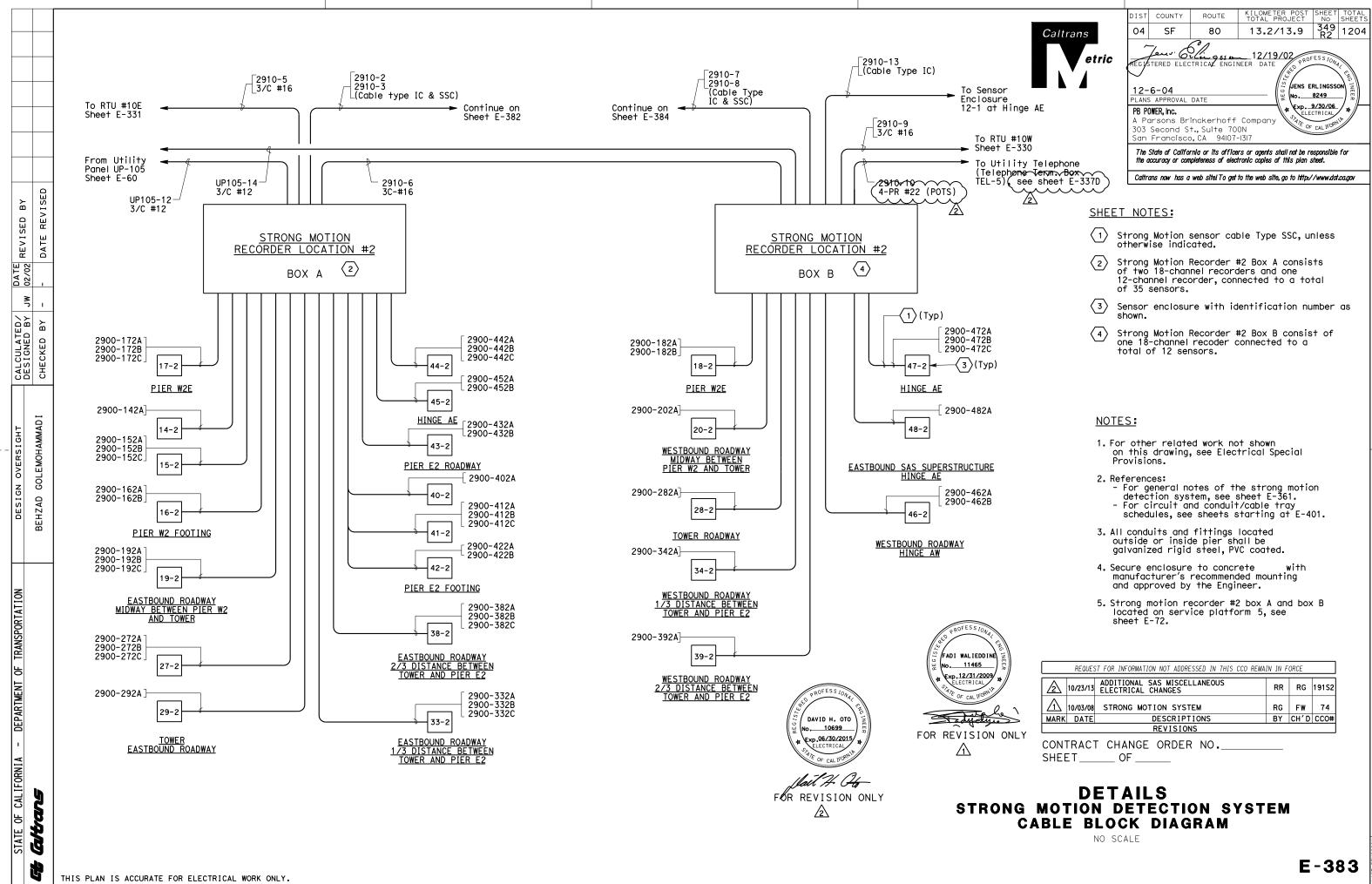
BY CH'D CCO#











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COUNTY 350 R2 1204 04 SF 13.2/13.9

STRONG MOTION DETECTION SYSTEM CABLE BLOCK DIAGRAM

NO SCALE

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FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS

2910-7 2910-8

L(Cable type IC & SSC)

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4-PR #22 (POTS)

Continue on

Sheet E-383

2900-363A

2900-363B

2900-353A 2900-353B 2900-353C

2900-353D

2900-353E

2900-353F

2900-323A 2900-323B

2900-323C

2900-323D

2900-323E

2900-313A

2900-313B 2900-313C

2900-303A

2900-303B 2900-303C

2900-303D 2900-303E

2900-373A 2900-373B

2900-263A 2900-263B

2900-253A

2900-253B 2900-253C

 $\langle 3 \rangle$ (Typ)

-[2900-243A (1) (Typ)

32-3

30-3

25-3

24-3

<u>Tower</u>

To Utility Telephone

(Telephone Term Rox 72 TEL-5), see sheet E-337D

2910-11 3/C #16

STRONG MOTION RECORDER LOCATION #3

(2)

UP210-12

3/C #12

TOWER Center Pile

Downhole Sensors

To RTU #10E Sheet E-331

From Utility

Panel UP-210

2900-223A 2900-223B

2900-223C

2900-213A 2900-213B

2900-233A 2900-233B

2900-233C

Part of CDMG specially formed

sealed cap assembly

Sheet E-278

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DATE

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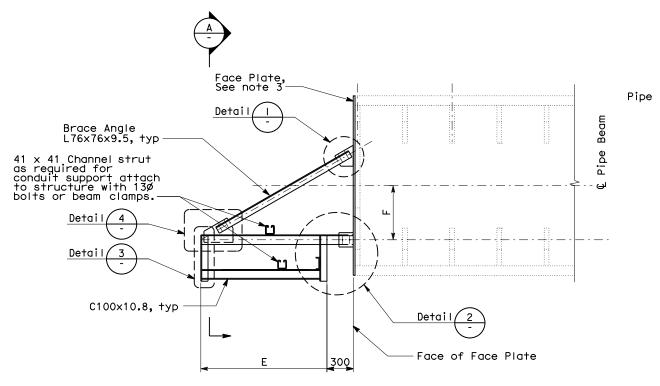
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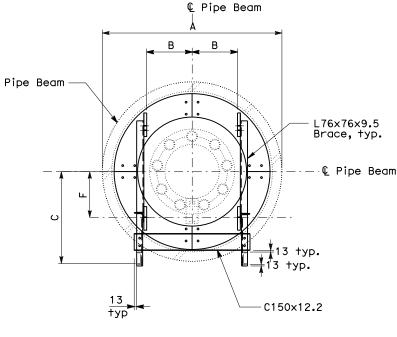
DAVID H. OTO

Exp.06/30/2015

FOR REVISION ONLY

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SECTION A-A NO SCALE



TABLE CONDUIT SUPPORT DIMENSIONS

	Hinge A							
Α	1900							
В	600							
С	991							
D	420							
E	1335							
F	574							

1	DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS							
	04	SF	80	13.2/13.9	86 S37R1	1204							
ric		J.	_dl_	3/27/13									
	REGISTERED CIVIL ENGINEER												
				VEER PRO TO THE PROPERTY OF TH	A. MOH								
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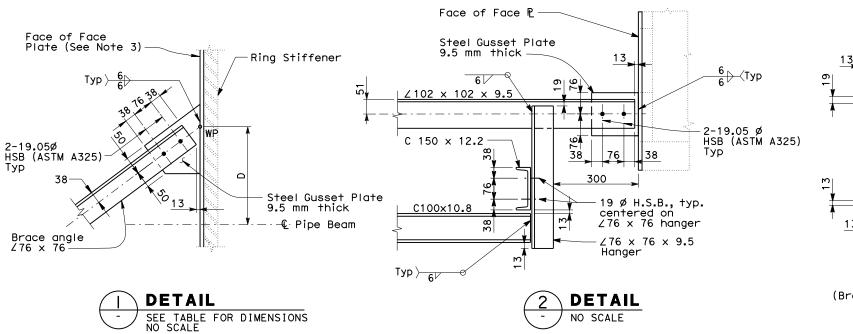
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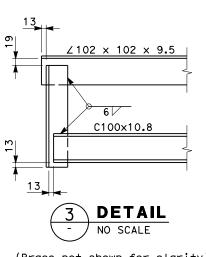
NOTES:

- 1. For General Structural Notes, see AS-1.
- 2. For other details not shown, see electrical plans.
- 3. See sheet AS-35A for face plate.

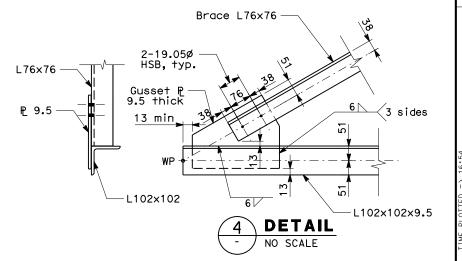
CONDUIT SUPPORT AT PIPE BEAM

SEE TABLE FOR DIMENSIONS SCALE: NO SCALE





(Brace not shown for clarity)



(Hanger L76x76 not shown for clarity)

REQUEST FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE										
\triangle	10/23/13	ADDITIONAL SAS MISCELLANEOUS ELECTRICAL CHANGES	SAM	JZ	19152					
△	03/27/13	ADDITIONAL SAS MISCELLANEOUS ELECTRICAL CHANGES	SAM	RG	19152					
MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#					
REVISIONS										
CON	TRAC	T CHANGE ORDER NO.								

SHEET _____OF ____

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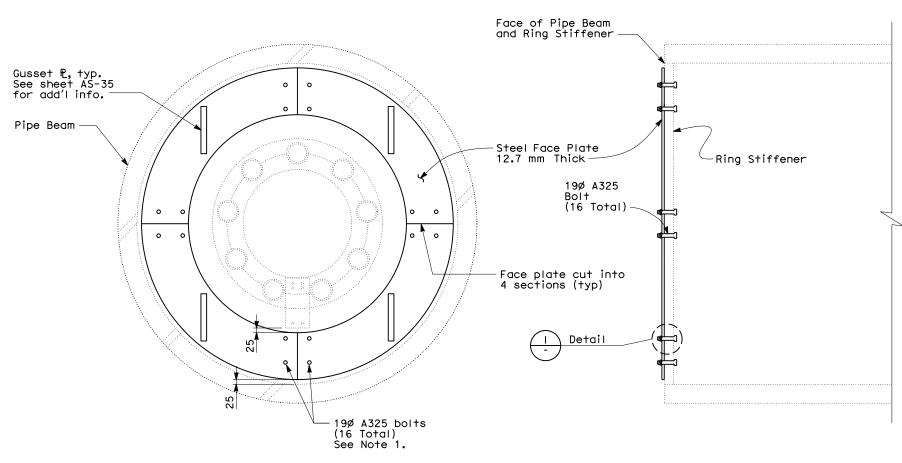
PREPARED FOR THE R. Garcia DESIGN S. Mohammed STATE OF CALIFORNIA R. Garcia DETAILS E. Llorico DEPARTMENT OF TRANSPORTATION QUANTITIES DESIGN DETAIL SHEET (METRIC) (REV. 3/1/98) ORIGINAL SCALE IN MILLIMETERS 0 10 20 30 40 50 60 70 80

BRIDGE NO. Brady Nadell PROJECT ENGINEER CU 04251 EA 0120F1

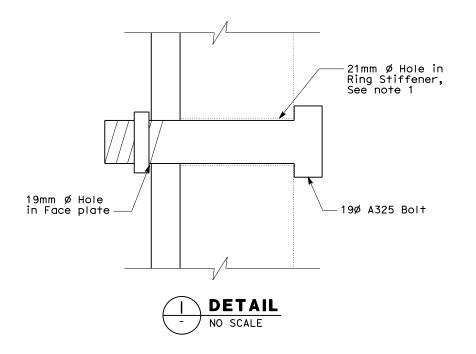
34-0006 LOMETER POS 13.2/13.9 DISREGARD PRINTS BEARING EARLIER REVISION DATES -

SAS/SKYWAY SUPERSTRUCTURE GIRDER CONDUIT/CABLE TRAY SUPPORT DETAIL - SHEET 1 OF 5 AS-35

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FACE PLATE AT PIPE BEAM NO SCALE



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NOTES:

- Bolt locations in face plate shall match existing bolt pattern in ring stiffener as shown. Verify existing bolt holes sizes in field.
- 2. Bolts shall be installed with lock washer.
- 3. All structural steel shall be hot-dipped galvanized.

	REQUEST FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE								
\triangle	10/23/13	ADDITIONAL SAS MISCELLANEOUS ELECTRICAL CHANGES	SAM	JZ	19152				
	03/27/13	ADDITIONAL SAS MISCELLANEOUS ELECTRICAL CHANGES	SAM	RG	19152				
MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#				
	REVISIONS								

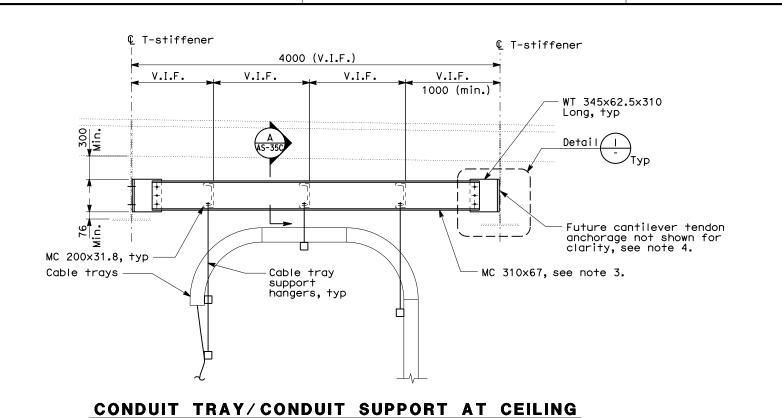
CONTRACT CHANGE ORDER NO._____SHEET____OF___

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

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	DI	ETAILS	BY E. Liorico	R. Garcia	STATE OF CALIFORNIA	Brady Nadell PROJECT ENGINEER					BABT	
	Q	QUANTITIES	BY	CHECKED	DEPARTMENT OF TRANSPORTATION		13.2/13.9		ETAIL - S	HEET 2 OF (5)	A	\S-35
DESIGN DETAIL SHEET (METRIC) (REV. 3/1/98)						CU 04251	DISREGARD PRI	TE BEADING	REVISION DAT	ES (PRELIMINARY STAGE ONLY)	SH	HEET OF
			ORIGINA FOR RED	L SCALE IN MILLIMETERS UCED PLANS 0 10		C0 01201	EARLIER REVIS	ON DATES	-			

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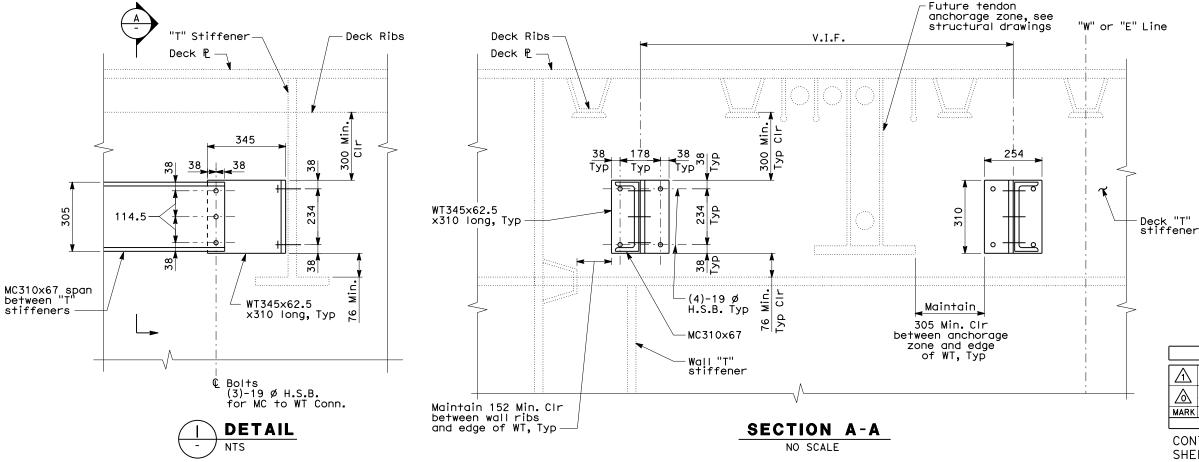
DIST COUNTY ROUTE KILOMETER POST SHEET TOTAL PROJECT NOT TOTAL PROJECT N

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NOTES:

- 1. For General Structural Notes, see AS-1.
- For other details not shown, see electrical plans.
- 3. MC channel shall be installed in true horizontal position.
- Contractor shall maintain 305 min. clr. in all directions around future tendon anchorage zone.



DESIGN

DETAILS

DESIGN DETAIL SHEET (METRIC) (REV. 3/1/98)

QUANTITIES

S. Mohammed

J. Fusco

R. Garcia

R. Garcia

ORIGINAL SCALE IN MILLIMETERS 0 10 20 30 40 50 60 70 80 90

CONTRACT CHANGE ORDER NO._____ SHEET OF

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BRIDGE NO.

34-0006

SAS/SKYWAY SUPERSTRUCTURE

KILOMETER POST
13.2/13.9

GIRDER CONDUIT/CABLE TRAY SUPPORT DETAIL - SHEET 3 OF 5 1

DISREGARD PRINTS BEARING REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET OF

FILE => 04-0120f1_086S39r01.dgn

Brady Nadell

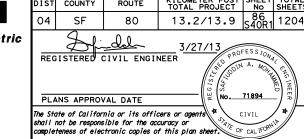
PROJECT ENGINEER

CU 04251 EA 0120F1

PREPARED FOR THE

STATE OF CALIFORNIA

DEPARTMENT OF TRANSPORTATION

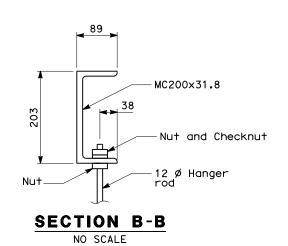


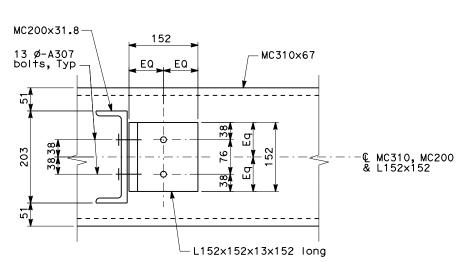
Parsons Brinckerhoff Quade & Douglas, Inc. 303 Second Street, Suite 700N San Francisco, CA 94107

Caltrans now has a web site! To get to the web site, go to: http://www.dot.ca.go

NOTES:

- 1. See Electrical Plans for additional information
- Cable trays/conduits not shown for clarity.
- 3. Seismic horizontal bracing not shown for clarity. See Electrical Plans.
- 4. Verify all dimensions in field.





"W" or "E" Line

Deck "T" stiffener

beyond

(2)-13 Ø A307 bolts for conn. of MC200 to L152x152, Typ

-L152x152x13x152 long, Typ

MC200x31.8

V.I.F.

Channel

≺> Typ

strut

SECTION A-A

NO SCALE

_V.I.F.

152 Min.

CIr

-Wall ribs, Typ

V.I.F.

12 Ø Threaded

rod, Typ. Continue to bottom support

where required.

Deck ribs, Typ

Тур

-Nut at top, nut and checknut at bottom, Typ

38 Typ

-Deck P

SECTION C-C NO SCALE

REQUEST FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE 10/23/13 ADDITIONAL SAS MISCELLANEOUS ELECTRICAL CHANGES SAM JZ 191S2 03/27/13 ADDITIONAL SAS MISCELLANEOUS ELECTRICAL CHANGES SAM RG 191S2 MARK DATE BY CH'D CCO# DESCRIPTIONS REVISIONS

CONTRACT CHANGE ORDER NO. SHEET _____OF __

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

PREPARED FOR THE BRIDGE NO. R. Garcia DESIGN S. Mohammed SAS/SKYWAY SUPERSTRUCTURE Brady Nadell 34-0006 STATE OF CALIFORNIA R. Garcia DETAILS GIRDER CONDUIT/CABLE TRAY SUPPORT DETAIL - SHEET 4 OF 5 J. Fusco PROJECT ENGINEER LOMETER POS AS-35C DEPARTMENT OF TRANSPORTATION QUANTITIES 13.2/13.9 CU 04251 EA 0120F1 DESIGN DETAIL SHEET (METRIC) (REV. 3/1/98) ORIGINAL SCALE IN MILLIMETERS 0 10 20 30 40 50 60 70 80 90 100 DISREGARD PRINTS BEARING EARLIER REVISION DATES -

MC310x67, Typ -

(2)-13 Ø A307

L152x152 — Тур.

Web ₽→

bolts for conn. of MC310 to

FILE => 04-0120f1_086S40r01.dgn

OBG floor beam flange P

Unistrut

Unistrut

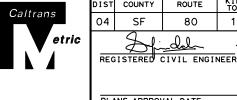
& Bolts

OBG floor

beam web P

Тур

& Bolts



13.2/13.9 86 S41 1204 04 SF 80 10/09/13

PLANS APPROVAL DATE

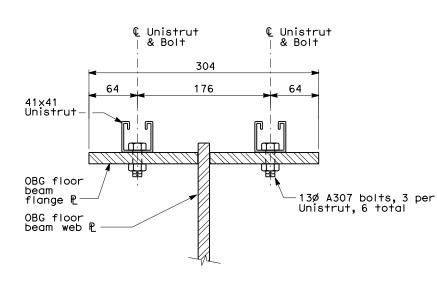
The State of California or its officers or agent shall not be responsible for the accuracy or completeness of electronic copies of this plan shee

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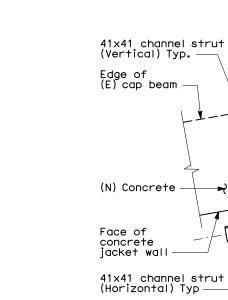
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NOTES:

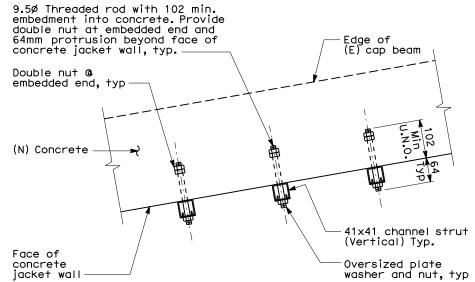
- 1. Contractor shall ensure all embedded anchors are aligned along a straight vertical line. Embedded anchors shall not conflict with Saddle Assembly, PT ducts pr concrete jacket wall reinforcement.
- 2. All embedded anchors and channel struts shall be hot-dipped galvanized.
- 3. Connection at concrete jacket wall is shown, connection at soffit beam is
- 4. Pull box shall be attached to horizontal channel struts using strut channel spring nut, lockwasher and hex bolt.







HORIZONTAL CONDUIT SUPPORT CHANNEL STRUT AND CONDUIT ATTACHMENT DETAIL



-41x41x12Ga Unistrut, H12Gx585 long Locate per CGS

-13ø A307 bolts, 3 per Unistrut, 6 total

Εq

585

STRONG MOTION SENSOR ENCLOSURE

INSIDE OBG @ PP 127.5

SCALE: 1:10

38

Тур

EMBEDDED ANCHOR AND VERTICAL CONDUIT SUPPORT CHANNEL STRUT CONNECTION DETAIL SCALE: 1:10

SCALE: 1:10

REQUEST FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE										
◬	10/28/13	ADDITIONAL S	AS MISCEL HANGES	LANEOUS		SAM	JZ	19152		
MARK	DATE	1	BY	CH'D	CCO#					
			REVISIO	ONS						
CON SHE		T CHANGE OF	ORDER	NO						

ALL DIMENSIONS ARE IN

Strut channel spring nut, lockwasher and hex bolt, typ.

-Conduit and conduit clamp, typ. See Electrical Plans for conduit size and location

152 Max TYP

						MILLIMETERS UNLESS OTHERWISE	. SHOWN							
		DESIGN	S. Mohammed	J. Zandian	PREPARED FOR THE	Brady Nadell	BRIDGE NO. 34-0006	SAS/	SKYW	ΑΥ 5	SUPER	STRUC	TUF	₹E
		DETAILS	E. Liorico	J. Zandian	STATE OF CALIFORNIA	PROJECT ENGINEER			ONDUIT			A1100A0T		
		QUANTITIES	BY	CHECKED	DEPARTMENT OF TRANSPORTATION		13.2/13.9		ETAIL	- SHEE	E TRAY	5	AS-	35
DESIGN DETAIL SHEET (METRIC) (REV. 3/1/98)				ORIGINAL SCALE IN MILLIMETERS			DISPECADO DO	INTE BEADING	REV	ISION DATES (PREL	IMINARY STAGE ONLY)		SHEET	OF
FINE SILL WEITHOUSE. STITES				AL SCALE IN MILLIMETERS DUCED PLANS 0 10		EA 0120F1	EARLIER REVIS	INTS BEARING SION DATES	-					
						EILE -> 04-0120f1 096641 dop								